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# Mineral Investigations in the Stikine Area, Central Southeast Alaska, 1997-1998

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## **Cover Photograph**

Sampling iron-stained rock in a roof pendent of the Coast Mountains Batholith, Stikine Area, central Southeast Alaska.

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Hattie
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Road Show
Mitkof Island, FS Rd 6245
ZAREMBO ISLAND
Zarembo Island, FS Rd 52009 100
Frenchie
Zarembo Island Hornblendite
Lost Zarembo
Zarembo Island Fluorite
ZF
Round Point
WORONKOFSKI ISLAND
Exchange
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K & D Mine
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Cascade Mine
Buck Bar
Andrew Creek
Groundhog Basin Area
North Silver
Northeast Cliffs

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## ABSTRACT

The U.S. Department of the Interior, Bureau of Land Management (BLM) is conducting a 4-year mineral resource assessment of the Stikine area in central Southeast Alaska that began in 1997. The 5.7 million-acre study area encompasses the mainland bordering Frederick Sound and Kupreanof, Kuiu, Zarembo, Wrangell, Etolin, and nearby islands. The study area covers the Stikine Mining District and additional lands not included in adjacent mining district studies. As the main land manager in the area, the U.S. Department of Agriculture, Forest Service, requested that the BLM assess the mineral potential in the Stikine area for the purpose of generating information that will aid the agency in future judgements regarding land management.

This report details information gathered during the 1997 and 1998 field seasons. Subsequent reports will include results from the years 1999 and 2000. Descriptions and assessments of over 90 mines, prospects, and anomalous mineral occurrences are included herein.

The Stikine area hosts a variety of mineral deposit types, including volcanogenic massive sulfide (VMS), replacement, polymetallic vein, vein gold, skarn, porphyry molybdenum, magmatic segregation, and veins of barite. In addition, there are minor deposits of placer gold, uranium, and coal. The Castle Island Mine produced 787,000 tons of barite between 1966 and 1980 (Carnes, 1980). Minor gold production came from the Maid of Mexico (Chapin, 1918) and Helen S (Wright and Wright, 1908) mines in the early part of the twentieth century, and from the Cascade Mine in 1948 (U.S. Bureau of Mines, Mine Production Records).

The Duncan Canal-Zarembo Island-Etolin Island, Groundhog Basin, and Cornwallis Peninsula areas have the most significant mineral potential in the study area. There are 18 sites with known or suspected VMS mineralization along Duncan Canal, and on Woewodski and Zarembo islands. These occurrences share Triassic host rocks of the Alexander terrane with deposits of known significance to the north, the Greens Creek Mine on Admiralty Island and the massive Windy Craggy deposit in northwestern British Columbia.

Thirteen prospects containing replacement and polymetallic vein mineralization occur in the Groundhog Basin area on the mainland near Wrangell. There is also some potential in that area for porphyry molybdenum deposits, in addition to the zones of silver, lead, and zinc that have encouraged significant exploration over the years.

The Cornwallis Peninsula, on the northern end of Kuiu Island, is host to several small deposits of barite and witherite, and there are two well-known deposits of lead and zinc. As presently understood, these occurrences are small and discontinuous, but share the same Triassic Alexander terrane host rocks as the VMS deposits in the area.

## Acknowledgments

The authors would like to thank the people who graciously shared minerals information from the Stikine area. These include Dr. Phil Beardslee, Paul Piper, Ken Eichner, and Cliff Taylor. We are grateful for the historic and current mineral exploration industry information that Cyprus Amax Minerals and Boliden, Inc., shared with us. We thank numerous personnel from the Forest Services's Wrangell and Petersburg Ranger Districts for the information and logistical support they provided. Thanks go to the helicopter and charter boat services of Temsco Helicopters, Alpine Helicopters, and Gary McWilliams and the M/V Hyak. The figures in this report were created by Shirley Mercer, BLM Information Specialist, Juneau, Alaska. We are also grateful to Shirley for the support she provided in the field.

## INTRODUCTION

This interim report contains information generated in the first two years of an on-going, 4-year mineral assessment being conducted by the U.S. Department of the Interior, Bureau of Land Management (BLM). The mineral potential within the Stikine area of central Southeast Alaska is the focus of this study (Figure 1).

Under Section 1010 of the Alaska National Interest Lands Conservation Act, 1980, the BLM is responsible for assessing the mineral potential of Federal lands throughout Alaska. This study is being done in accordance with Section 1010 at the request of the U.S. Department of Agriculture, Forest Service. Information gained from the assessment is of primary importance to that agency. As the major land manager in the area, the Forest Service requires a thorough understanding of the mineral endowment and its development potential in order to accomplish the agency's multiple-use management objective.

The BLM intends to define the mineral potential of the Stikine area by:

- 1. Identifying the number, type, and distribution of mineral deposits.
- 2. Determining resource estimates whenever possible.
- 3. Conducting economic feasibility studies for selected deposits.
- 4. Addressing land use and resource issues related to mining activity.

To accomplish this, BLM personnel began locating, sampling, surveying, and mapping mineral deposits at historic mines and prospects, in addition to performing reconnaissance investigations to identify new resources.

Preliminary results of field work done in 1997 were published in 1998 (McDonald and others, 1998). This interim report contains information gathered during both the 1997 and 1998 field seasons and includes individual property descriptions. A subsequent comprehensive report is scheduled for release in 2001, which will include results from the years 1999 and 2000, as well as prospect maps.

More than 90 mines, prospects, and mineral occurrences are individually described herein, with sections on the location and access, history, and mineral assessment of each. These site descriptions are organized within the text according to their locations--beginning in the west with those on the most outboard islands within the study area and moving eastward to include those found on the mainland (Plate 1). Appendix B provides the latitude and longitude of each site and is organized by map number as shown on Plate 1. Appendix B also lists all the sites alphabetically. Further delineations in the Appendices include analytical results for rock and stream sediment samples presented in Appendix A. These are then subdivided into two tables:

Table A-1 contains results from samples taken from known mines, prospects, and mineral occurrences; and Table A-2 contains results of reconnaissance investigation samples.

The area under examination encompasses a variety of mineral deposit types, including volcanogenic massive sulfide (VMS), replacement, polymetallic vein, vein gold, skarn, porphyry molybdenum, magmatic segregation, and veins of barite. In addition, there are minor deposits of placer gold, uranium, and coal.

There has only been limited mineral production from the Stikine area. The major producer, the Castle Island Mine, produced 787,000 tons of barite between 1966 and 1980 (Carnes, 1980). The Maid of Mexico and Helen S mines on Woewodski Island apparently produced minor amounts of gold between about 1902 and 1933, but specific production numbers are unknown (Chapin, 1918; Wright and Wright, 1908). The Cascade Mine on Thomas Bay made a small test shipment of gold-bearing ore in 1948 (U.S. Bureau of Mines, Mine Production Records).

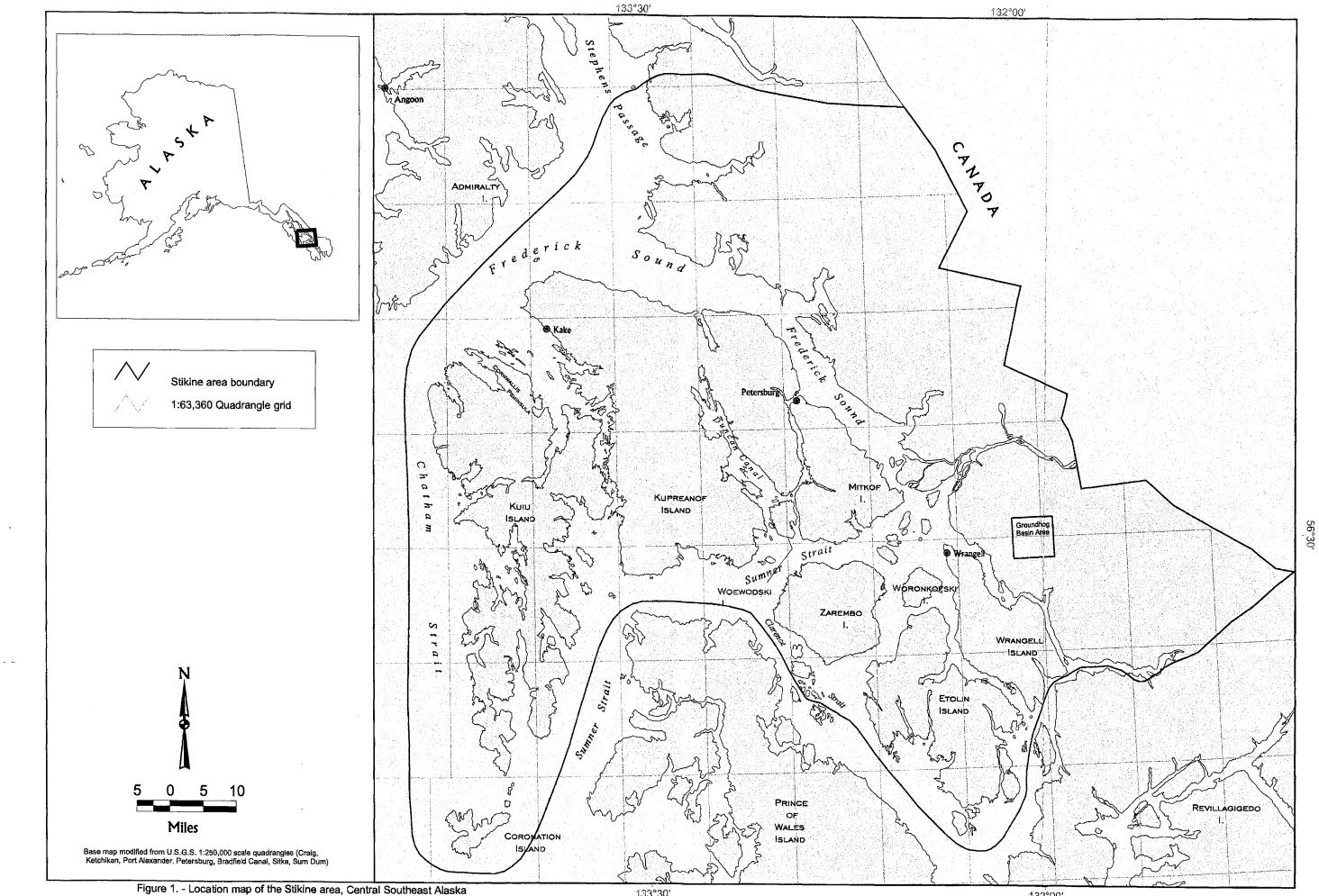
In an effort to better assess the mineral potential of the study area, an airborne geophysical survey was carried out under a joint agreement between the BLM, Alaska Division of Geological and Geophysical Surveys (ADGGS) and the City of Wrangell. The U.S. Geological Survey (USGS) contributed to the project with the publication of 1:63,360-scale geological maps (Brew, 1997a-m) and the re-analysis of existing geochemical samples (Smith, 1998). Additionally, the USGS has completed geologic mapping (Karl and others, 1999), structural analysis (Haeussler and others, in press), predictive geophysical modeling (McCafferty and others, in press), and detailed, ground-based geophysical follow-up (Wynn and others, in press).

The geophysical survey covers a belt of Triassic rocks that crops out on Kupreanof Island (along Duncan Canal), on Woewodski and Zarembo Islands, and on western Etolin Island that is of significant interest. These Triassic rocks have been correlated with those that host the VMS deposits to the north at the Greens Creek Mine on Admiralty Island and at the world-class Windy Craggy deposit in northwestern British Columbia, Canada. The extent of this Triassic belt within the Stikine area is better defined as a result of the geophysical survey.

The Groundhog Basin area (Figure 4) is also included in the geophysical survey because it hosts numerous replacement and polymetallic vein deposits. In addition, there is some potential for porphyry molybdenum. High silver, lead, and zinc values along significant strike lengths have encouraged exploration by many private companies and individuals over the years; however, no production has come from the Groundhog Basin area.

## LOCATION, ACCESS, LAND STATUS

The Southeast region of Alaska stretches 560 miles from south of Ketchikan to Icy Bay northwest of Yakutat. The lands involved in this mineral assessment are located in central Southeast Alaska and are referred to here as the Stikine study area (Figure 1). "Stikine" is derived from a Tlingit



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132<sup>°</sup>00'

name meaning "Great River." The Stikine River, the mouth of which is in the study area, is an historically important transportation route from the coast, through the Coast Mountains to the interior. Encompassing 5.7 million acres, the Stikine study area extends throughout all of the Forest Service's Petersburg and Wrangell Ranger Districts and parts of the Juneau and Thorne Bay Ranger Districts. It includes the Kupreanof and most of the Petersburg historic mining districts (Ransome and Kerns, 1954). From east to west, it stretches from the U.S.-Canadian border to the outboard islands of the Alexander Archipelago–including the islands of Wrangell, Etolin, Zarembo, Mitkof, Kupreanof, Kuiu, and Coronation, as well as the interspersed smaller islets. From north to south, it stretches approximately 100 miles on the mainland, from its northern boundary at the head of Endicott Arm, south to Bradfield Canal.

The geography of the Stikine area is diverse. To the east on the mainland, peaks reach altitudes of 10,000 feet. Ice fields and alpine glaciers predominate; the LeConte Glacier is the southernmost in North America to flow directly into salt water. Although the topography of the islands is generally subdued compared to elsewhere in southeastern Alaska (much of Kupreanof Island consists of extensive, flat, low-lying regions), peaks do reach altitudes of approximately 3,700 feet on both Kupreanof and Etolin Islands. The entire study area was glaciated in the geologically recent past.

Southeast Alaska is famous for its lush rainforest. The islands of the Alexander Archipelago are typical of this rainforest. Vegetation includes muskegs in poorly drained areas and thick conifer forests of primarily western hemlock, Sitka spruce, and scattered red and yellow cedar. The tree line is variable, but is generally found around an altitude of 2,000 to 2,500 feet.

The towns of Petersburg and Wrangell have the largest populations in the area-approximately 3,600 and 3,100 respectively. Each is served by daily scheduled jet service from the major Southeast cities of Juneau and Ketchikan (connecting to Seattle), scheduled Alaska Marine Highway System ferries, commercial barge companies, and local chartered air service. Smaller air taxi services also provide access between Petersburg and Wrangell, along with scheduled daily flights to other southeastern Alaska communities and charter services to remote areas. Helicopter service is available from Petersburg and on a prearranged basis from elsewhere in the study area. The two municipalities are the main supply centers in the area. Lodging is available from numerous establishments. Car rental is also available to access the network of roads extending from both cities. There are approximately 200 miles of roads extending from Petersburg and 140 from Wrangell; these include municipal, state, and Forest Service roads, both paved and unpaved.

Kake (population: 700) is located on western Kupreanof Island approximately 40 miles northwest of Petersburg. It is served daily by scheduled flights from air taxi services and twice weekly by scheduled state ferry and barge service. Overnight accommodations are available. Car rental is negotiable. Generally to the north and east of Kake, an extensive logging road network includes Forest Service and Kake Tribal Corporation roads (the area's Native village corporation as established by the Alaska Native Claims Settlement Act of 1971).

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The climate of the Stikine area is moderated by maritime influences; summers are cool and winters are mild. Snow is common during the winter and at higher elevations, but rain falls at all times of the year. Wrangell and Petersburg experience similar average temperatures–30.5°F in January and 58.1°F in July. The average annual rainfall is higher in Petersburg, at 110 inches per year, as opposed to 82.4 inches in Wrangell. Snowfall in Wrangell is 64 inches. About half of the precipitation in the area falls in October, November, and December (www.wrangell.com and www.petersburg.org/visitors/climate.html).

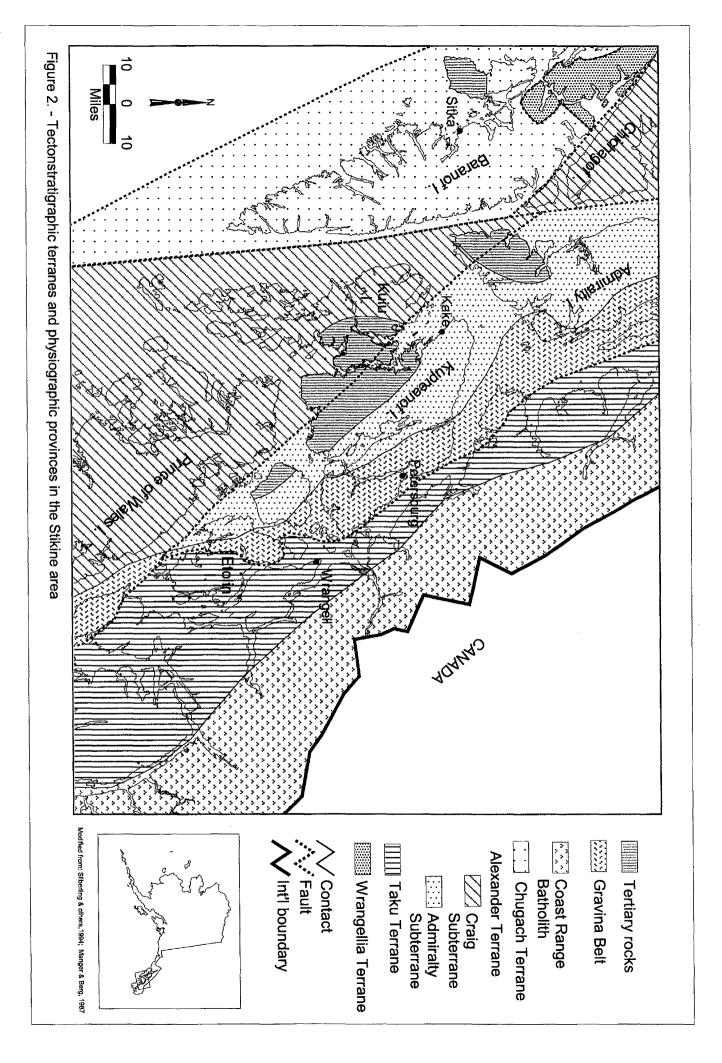
About 90 percent of the land in the Stikine study area is managed by the Forest Service. Much of that land is open to mineral entry, however the Stikine-Leconte, Petersburg Creek-Duncan Salt Chuck, and Kuiu wilderness areas are closed to mineral development. Native lands are those that were withdrawn from mineral entry in 1971 by the Alaska Native Claims Settlement Act for selection by the area's Native regional and village corporations. The Sealaska regional Native corporation holds the mineral rights to all Native lands. The largest block of Native land in the study area is on the northwest end of Kupreanof Island, owned by the Kake Tribal Corporation. State lands in the area are concentrated near the towns of Petersburg and Wrangell as well as near Cape Fanshaw, Thomas Bay, the south end of Mitkof Island, on the northeast side of Zimovia Strait, and at the head of Bradfield Canal. Small private land parcels and active mining claims are scattered throughout the study area. One should consult the Forest Service, BLM, or State of Alaska to get more precise information on the land status in the Stikine area before commencing mineral development activities.

## **GENERAL GEOLOGY AND DEPOSIT TYPES**

Eight tectonic assemblages are present within the Stikine area (Figure 2). They represent a diverse array of rock types ranging in age from Paleozoic to Holocene (Gehrels and Berg, 1994; Brew and others, 1984). The eight assemblages include five lithic and three tectonostratigraphic terranes. Some of the mineral deposits found in the Stikine area are restricted to certain tectonic assemblages. From west to east, the terranes are the Alexander, Taku, and Stikinia. The lithic assemblages include the Gravina Belt overlap sequence, metamorphic rocks within the Coast Range Batholith, plutonic rocks of the Coast Range Batholith, plutonic rocks west of the batholith, and Quaternary and Tertiary volcanic and sedimentary rocks. The assemblages generally form elongate, northwest-trending belts (Gehrels and Berg, 1994).

Volcanogenic massive sulfide (VMS) deposits are the most significant in the Stikine area. They occur in Triassic rocks on the inboard margin of the Alexander terrane and are part of a 375-milelong belt that stretches the entire length of Southeast Alaska. The belt includes the Greens Creek deposit on northern Admiralty Island, about 100 miles to the northwest of the Stikine area, and the Windy Craggy deposit, about 250 miles to the northwest, in British Columbia, Canada.

Within the Stikine area, the VMS deposits in the Alexander terrane extend along both sides of Duncan Canal on Kupreanof Island, south across Zarembo Island, and onto the western side of



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Etolin Island. (See Plate 1 for geographic references.) They are hosted in volcanic and sedimentary rocks of the Hyd Group as mapped by Karl and others (1999). Triassic carbonates in the area contain replacement-type minerals that may also be related to the VMS deposits, e.g., the lead-zinc-barite deposits on Cornwallis Peninsula on northern Kuiu Island (C.D. Taylor, oral commun., 1998).

Two subterranes of the Alexander, known as the Craig and Admiralty, date from Paleozoic to Cenozoic and make up the western part of the Stikine area. These subterranes are interpreted as distinct crustal fragments only until Permian time; from that point, their depositional and tectonic histories appear similar (Gehrels and Berg, 1994). Triassic VMS and related deposits in the Stikine area are, therefore, not affected by the distinction in the subterranes.

Rocks of the Jurassic to Cretaceous Gravina Belt overlie the eastern margin of the Alexander terrane. In light of information generated by the recent airborne geophysical survey, work by Karl and others (1999) suggests that the Gravina Belt rocks do not extend as far to the west on Kupreanof Island as earlier maps have depicted. This means that the Alexander terrane is exposed farther to the east than previously thought, and therefore the potential for Triassic VMS deposits is also extended eastward.

Within the study area, the Taku terrane is exposed to the east of the Gravina Belt and consists of deformed and metamorphosed rocks of pre-Permian (?) to Late Triassic age (Gehrels and Berg, 1994). To the southwest, Taku rocks are thrust over the Gravina Belt. To the northeast, they have been intruded by the Coast Range Batholith, and the terrane boundary has been obscured. Metamorphic pendants and inliers in the batholith are indistinguishable from Taku terrane rocks to the west (Gehrels and Berg, 1994). Although the mineralized rocks of Groundhog Basin are hosted in the Taku terrane, they are secondary deposits related to the much later intrusion of rocks of the Coast Range Batholith (Newberry and Brew, 1989).

The Coast Range Batholith makes up the eastern side of the Stikine study area. It consists mainly of two belts of plutonic rocks: the Great Tonalite Sill Belt (L. Cretaceous to Early Eocene) and the Coast Mountains Belt (Early Eocene to Middle Eocene) (Brew and Morrell, 1983; Brew, 1994). Younger plutons (Late Oligocene to Miocene) are also found within the batholith, specifically around Groundhog Basin and in the Cone Mountain area (Brew, 1994). Mineral occurrences in the batholith include polymetallic skarn deposits and small, structure-controlled polymetallic veins. The area also holds the potential for resources of porphyry molybdenum, uranium, and rare-earth elements.

Rocks of the Stikinia terrane are mapped in only a few places within the study area (Gehrels and Berg, 1994). However, the terrane hosts numerous mineral deposits in Canada–of particular interest are the precious-metal deposits of the Iskut Camp and the precious- and base-metal-rich deposits to the south in the Stewart Mining Camp. The potential exists for related deposits in the Stikine area.

Cenozoic rocks west of the Coast Range Batholith are found in a belt of Late Oligocene to Miocene plutons that extends the length of Southeast Alaska (Brew, 1994). As it appears in the study area, it is referred to as the Kuiu-Etolin Volcanic-Plutonic Belt and mainly consists of granitic rocks with some diorites to gabbros. It is exposed on northern Kuiu Island, southwestern Kupreanof Island, Zarembo Island, and Etolin Island (Brew and Morrell, 1983; Brew and others, 1984).

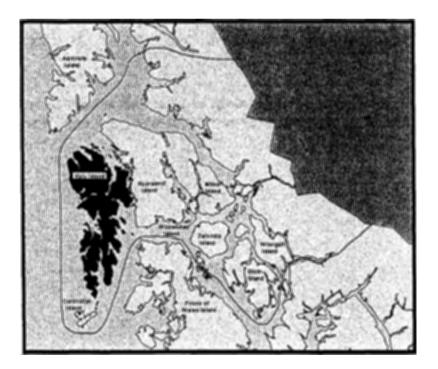
Tertiary volcanic rocks in the study area are related to the intrusives of the Kuiu-Etolin Volcanic-Plutonic Belt. They are made up of basalt and andesite flows; rhyolite flows and tuffs; and volcanic breccias (Brew and others, 1984). A field of Holocene volcanics of mainly olivine basalt lies on southern Kupreanof Island (Brew, 1994). Although color anomalies in the young volcanics attracted the attention of investigators, no significant deposits have been found to date. Analysis of geochemical samples from the area has revealed the potential for rare-earth elements (Smith, 1998).

# PROSPECTS IN THE STIKINE AREA (PLATE 1)

# **KUIU ISLAND**

Property name ..... Plate 1, Map no.

Allied Mine Group E 1
Cornwallis Peninsula 2.1-2.4
Keku Islet
Little Creek
Kuiu Lead-Zinc 5.1-5.2
Katherine 6.1-6.2
Saginaw Bay7
Hungerford
Corn
Saginaw Bay Barite 10
Kadake Bay 11
Kuiu 12.1-12.4
Point Saint Albans 13.1-13.3



## **ALLIED MINE GROUP E**

(Plate 1, Map no. 1)

## Location/Access

The Allied Mine Group E is located on northwest Kuiu Island at the mouth of Saginaw Bay. It lies 14 miles from Kake. Barite veins are exposed along a rocky, wave-worn point on the southwest side of the bay near the high-tide line. The site can be reached by boat, float plane, or helicopter during low tide.

## History

The Allied Mine Group E was originally staked for barite in 1955 by Roy and Rachel Strong (Alaska Kardex, 1982). No development work or additional activity is reported.

## **Mineral Assessment**

The deposit lies within a narrow exposure of Silurian or Devonian volcanic breccia (Muffler, 1967). A few pillow structures are also distinguishable in the volcanics. The barite is present as a series of pods and irregular veins that strike 000° to 033° and dip 40° to 46° to the southeast. Veins range in width from 0.1 to 1.4 feet and in length from a few feet to 80 feet. The barite is pinkish white, fine- to coarse-grained, and is commonly found in association with carbonate minerals, which may include witherite. No sulfides were found associated with this deposit. Field relations show the barite veins are crosscut by younger faults in the volcanics.

BLM personnel took three samples of different barite veins cropping out intermittently across the property (Map no. 1, samples 9604-06). In each sample, the barium values were greater than 2.0 percent.

## Conclusions

This site is characterized by narrow, discontinuous, and scattered veins of barite in subeconomic concentrations. No attempt was made to trace these veins inland due to the extensive cover.

## **CORNWALLIS PENINSULA**

(Plate 1, Map nos. 2.1-2.4)

## Location/Access

The Cornwallis Peninsula occurrence includes approximately 2 miles of beach on the northeast shore of Kuiu Island, approximately 10 miles southwest of Kake. The beach is a broad expanse of gravels and outcrop exposed during low tide. Access to this area is via boat, float plane, or helicopter at low tide.

#### History

Barite, witherite, and calcite were first discovered at this site by Hungerford, who staked three claims in 1923. Additional claims were staked by Barrows later in 1923 (Buddington, 1925); George Comstock, in 1931; and Jack Whitfield, Lueria Jordan, and Pete Hooper, in 1949 (Alaska Kardex, 1982). No development work has been reported.

#### **Mineral Assessment**

The Cornwallis Peninsula occurrence is hosted almost entirely within the Triassic Keku Volcanics. However, at the northwestern edge, the Keku Volcanics are in contact with the overlying Triassic Cornwallis Limestone (Muffler, 1967). Fracture-filling veins of barite and witherite, as well as fine-grained, disseminated pyrite, sphalerite, and a trace of chalcopyrite make up the occurrence.

Barite stringers and veins occur in felsic volcanics, volcanic breccia, and limestone. The stringers and veins trend generally northwest to northeast with steep to near-vertical dips. Veins vary in width from 0.1 to 2.3 feet and can be traced along strike for up to 200 feet. A 2-foot-wide barite vein, hosted in felsic volcanics and traceable for approximately 200 feet, contained greater than 2.0 percent barium (Map no. 2.3, sample 155). A 300-foot-wide zone of barite stringers and veins is hosted in limestone, conglomerate, and fossiliferous mudstone. A sample of a 2.3-foot-wide vein in this zone contained 44.46 percent barium (Map no. 2.3, sample 9612).

Disseminated pyrite, sphalerite, and chalcopyrite are contained in conglomerate and iron-stained volcanics. A sample from a conglomerate with disseminated sulfides in the matrix contained 660 ppm copper and 553 ppm zinc (Map no. 2.3, sample 156). A sample of iron-stained volcanics with disseminated sphalerite and pyrite contained 8,382 ppm zinc (Map no. 2.2, sample 167).

While investigating the southwest shoreline of one of the islets just offshore of the main deposit, BLM personnel observed disseminated pyrite, sphalerite, and galena in a Carboniferous crinoidal limestone (Muffler, 1967). A sample from this location contained 2.0 percent zinc and 660 ppm lead (Map no. 2.4, sample 9611).

## Conclusion

This occurrence is characterized by scattered veins and stringers of barite and low-grade, disseminated sulfides—including sphalerite, plus minor chalcopyrite and galena. The low grades and scattered character of the mineralization at Cornwallis Peninsula do not encourage exploration.

## **KEKU ISLET**

(Plate 1, Map nos. 3.1-3.3)

## Location/Access

The Keku Islet occurrence lies less than a mile offshore of Kuiu Island, on one of the many islets that dot Keku Strait. It is 7.5 miles southwest of Kake. The deposit is located along the northwest shoreline of the island and is covered at high tide. Access to the island is best accomplished by boat or float plane. Helicopter access is possible during low tide.

#### History

The zinc occurrence at Keku Islet was first described by Buddington (1925) during a visit to the area in 1923. The Bureau of Mines examined the property in 1949. At that time, three claims were held by Jack Whitfield, Lueria Jordan, and Pete Hooper called the Spallright 1, 2, and 3. The Bureau of Mines concluded that the quantity of mineralized rock was insufficient to warrant further development (Jermain and Rutledge, 1949).

#### **Mineral Assessment**

The larger island of the Keku Islands has been mapped as Permian Halleck Formation that has been intruded by numerous gabbro dikes (Muffler, 1967). The country rock can be divided into three major types: a tan, well-bedded, bioturbated (scattered burrows) limestone that strikes 010° to 050° and dips between 18° and 20° to the southeast; a thinly interbedded sandstone and mudstone; and a poorly sorted, pebble conglomerate. These units are cut by a system of subparallel, Triassic or Tertiary mafic dikes that strike 286° to 292° and dip 81° to 84° to the northeast. The dikes are aphanitic, black to mottled brown, and have altered, tan margins.

The Keku Islet occurrence is associated with one of the mafic dikes, which is cut at nearly right angles by several small veinlets of sphalerite to form ladder veins. The dike extends 240 feet from tide water across the intertidal zone to vegetative cover and has an average width of 10 feet. The sphalerite veinlets range from 0.1 to 2.0 inches in width and strike 005° to 030° with nearly vertical dips. A few sphalerite veinlets also trend parallel to the dike. Pyrite is associated with some of the sphalerite veinlets. Calcite veinlets also crosscut the dikes.

BLM personnel mapped and sampled the two most heavily mineralized outcrops of the ladderveined dike. They took six continuous chip samples across several sphalerite veinlets cutting the dike (Map no. 3.1, samples 161, 9617-21). All the samples contained high zinc and most had anomalous amounts of tungsten. Zinc values ranged from 7,773 ppm to 13.6 percent and tungsten values from less than 20 to 149 ppm. The tungsten values are directly proportional to zinc values in all six samples. However, in samples with zinc concentrations over 1.0 percent, analytical interference will cause tungsten values to be enhanced.

Field personnel mapped and sampled another similarly mineralized dike approximately 0.75 miles (straight-line distance) southeast of the one at the Keku Islet deposit. Discontinuous outcrops of the dike extend northwest along the beach for approximately 350 feet with an average width of 8

feet. Investigators collected five continuous chip samples at different points along the dike (Map no. 3.3, samples 162-166). All samples contained high zinc values and anomalous tungsten values. Zinc values ranged from 6.1 to 31.2 percent; and tungsten, from 58 to 254 ppm. Again, it is important to note that zinc values greater than 1.0 percent will enhance tungsten values.

## Conclusions

Sphalerite mineralization at the Keku Islet deposit is characterized by fracture-filling veins in mafic dikes. These very small, widely spaced veinlets are found in a small percentage of the dikes on the island. The zinc values across the dikes range from 7,773 ppm to 13.5 percent. Each of the samples collected showed anomalous tungsten values, which are possibly lab artifacts caused by high zinc values. The limited extent of mineralized veinlets at the Keku Islet deposit discourages further exploration.

## LITTLE CREEK

(Plate 1, Map no. 4)

## Location/Access

The Little Creek deposit is located on the north shore of Cornwallis Peninsula on Kuiu Island, 8.5 miles southwest of Kake. Reports indicate it lies approximately 0.25 miles inland, at an elevation of 200 feet (Bureau of Land Management, MAS). Access to this area is via boat, float plane, or helicopter to the beach and then overland by foot. The occurrence is on land that was withdrawn from mineral entry in 1971 by the Alaska Native Claims Settlement Act for selection by the Sealaska and Kake Tribal Corporations (the area's Native regional and village corporations) and is currently listed as interim conveyed, pending patent.

#### History

Little Creek was staked in 1969 by G. Fennimore, H.W. Coleman, A.J. Tanner, and L. Strong. It consists of only one claim, listed as a lode gold deposit. There has been no activity recorded since the original staking (Alaska Kardex, 1982).

## **Mineral Assessment**

The Little Creek area consists of Triassic Keku Volcanics (Muffler, 1967). Limited outcrop appears to be mostly rhyolite flows with scattered jasper veinlets. Above an elevation of 180 feet, the country rock is more altered and outcrops of coarse volcanic breccia are present.

Because little information about this property exists, mineralized targets are poorly defined. BLM personnel collected two samples along a very small creek, presumably Little Creek, which ends in a 10-foot-high waterfall at the beach. A stream sediment sample contained 401 ppm lead and 176 ppm barium (Map no. 4, sample 159). This lead value corroborates an anomalous lead value previously reported by Cathrall and others (1983) of 300 ppm. A sample of altered volcanics contained 1,359 ppm barium (Map no. 4, sample 160).

## Conclusions

Although the Little Creek area was originally staked for gold, only trace amounts of gold were obtained from a stream sediment sample taken in the vicinity of the deposit. However, anomalous lead values were obtained. Altered rhyolites contain veinlets of jasper along with barium and traces of zinc. Continued exploration might reveal more limestone, which could be the host for replacement deposits similar to those at the Kuiu Lead-Zinc prospect (Map nos. 5.1-5.2).

## KUIU LEAD-ZINC

(Plate 1, Map nos. 5.1-5.2)

## Location/Access

The Kuiu Lead-Zinc prospect is located along the northeastern shore of Cornwallis Peninsula, on the north end of Kuiu Island, 8 miles southwest of Kake. The workings are located approximately 800 feet inland. They lie at an elevation of 80 feet, on the east bank of a small north-flowing stream. The area is thickly wooded, and the stream contains abundant dead fall. The topography is gently sloping from the beach to the workings, but steepens inland from there. The beach is accessible by boat, float plane, or helicopter at low tide. Travel inland is by foot along the creek. The deposit is on land that was withdrawn from mineral entry in 1971 by the Alaska Native Claims Settlement Act for selection by the Sealaska and Kake Tribal Corporations (the area's Native regional and village corporations) and is currently listed as interim conveyed, pending patent.

#### History

Mineralized rock was first discovered at the Kuiu Lead-Zinc prospect by Ted Hungerford prior to 1937. By 1937 a group of 32 lode claims, called the Keku Group, had been staked by I.M. Holfsted, L. Dyrdahl, and H. Hawks (Roehm, 1937). Dyrdahl continued to hold these claims, with various partners, at least until 1951 (Williams, 1951b).

Between 1937 and 1938, 150 to 200 tons of high-grade zinc and lead ore were removed from an opencut at the Kuiu Lead-Zinc prospect and piled in the creek approximately 600 feet inland from the beach (Roehm, 1938b). This rock was reported by the owners to contain 4 to 18 percent zinc, 5 to 6 percent lead, trace to 0.07 oz/ton gold, and 0.6 to 5.9 oz/ton silver (Thorne 1948). However, channel samples taken from the opencut by Roehm (1938b) contained only 0.18 to 0.29 percent zinc across 5 feet. A select grab sample from the ore pile in the creek ran only 2.75 percent zinc (Roehm, 1938b). The BLM found no reports of what was done with the stockpiled lead-zinc ore.

A 55-foot adit, with a winze and 25-foot sublevel, was completed on the Kuiu Lead-Zinc prospect sometime prior to Roehm's visit in 1946. No specific information detailing who did the work or when it was done could be found. Reports indicate that the lead-zinc ore was not intersected in the workings. By 1946 the winze and sublevel were reportedly flooded (Roehm, 1946).

The owners of the Kuiu Lead-Zinc prospect carried out a drilling program sometime around 1946. The Alaska Territorial Department of Mines assisted this project with geologic mapping, logging drill core, and locating drill targets (Roehm, 1946). Approximately 14 diamond drill holes were completed, although the exact number and total feet is uncertain. No significant intercepts or resources were defined by the drilling program.

## **Mineral Assessment**

The Kuiu Lead-Zinc prospect is located in the Triassic Keku Volcanics (Muffler, 1967). A detailed geologic map of the prospect, produced by Roehm (1946), depicts a sequence of felsic lavas and agglomerates that are overlain by dolomitic limestone with localized replacement-type mineralized rock. The dolomitic limestone is, in turn, overlain by slightly mineralized agglomerates and capped by a unit of intermediate lavas. This rock package has been gently folded along a northwest to southeast fold axis and faulted (Roehm, 1946).

The mineralized rock at the Kuiu Lead-Zinc prospect is hosted primarily by dolomitic limestone that is locally replaced by small irregular bodies and pods of sphalerite and galena. The original showing on the property was located approximately 600 feet inland on the south bank of the creek, apparently where the creek makes a sharp bend. This showing was mined out (Roehm, 1938b) and not observed during the BLM's visit. However, a detailed petrographic examination of the ore revealed very fine-grained sphalerite in small, rounded masses. Galena was described as subordinate (Roehm, 1937). This irregular ore body was depicted as 30 feet long, 40 feet wide, and exposed along its dip for 200 feet (Roehm, 1938b).

A small adit, driven into the dolomitic limestone, is located approximately 200 feet upstream from the original showing. No mineralization is intercepted by these upper workings, which confirms earlier reports (Roehm, 1946). The winze and sublevel are flooded. A surface cut, located on a steep face of the stream bank just upstream from the adit, does contain small pods of galena and sphalerite replacing dolomite. The pods are irregularly spaced and 2 to 3 inches in scale. Conspicuous, black manganese oxide coats the outcrop. High-grade samples from this cut contained 313.6 ppm to 21.72 oz/ton silver, 10.31 to 20.54 percent lead, and 7.7 to 13.4 percent zinc (Map no. 5.2, samples 9578, 9615).

A third exposure of mineralized dolomite was described in a small creek, parallel to and east of the original mined-out showing. Here a 15-foot width of dolomitic limestone with disseminated galena reportedly crops out in the creek bed, roughly on strike with the other two showings (Roehm, 1937).

The BLM surveyed for radioactivity near the Kuiu Lead-Zinc workings using a hand-held scintillometer. Background readings are 60 counts per second, with readings inside the adit ranging between 100 and 150 counts per second.

#### Conclusions

Previously reported high lead and zinc values, as well as those obtained in this study, encourage additional investigation of the Kuiu Lead-Zinc prospect. Because of the irregular nature of the replacement-type mineralization and reports of minor mineralized areas in the vicinity, care should be taken to investigate all exposures of the dolomitic limestone; for instance, the small parallel stream to the east may have mineralized rock along strike from the adit. Sampling of the adit would be useful to verify whether minerals of interest are present, especially the very fine-grained sphalerite described by Roehm (1937), which might not show up readily in hand specimens. The

agglomerate units noted here should be compared to the green volcanic breccias seen at the Hungerford prospect (Map no. 81-8.2), located approximately 1.4 miles southeast along the beach. If the two units correlate, the potential exists for a replacement-type deposit structurally below the Hungerford prospect.

## KATHERINE

(Plate 1, Map nos. 6.1-6.2)

## Location/Access

The Katherine occurrence is located on one of the Keku Islets off the northeastern end of Kuiu Island, approximately 7 miles southwest of Kake. The occurrence lies along the shoreline, on the northeast and northwest ends of the islet. These locations can be observed during low to medium tides. Access is via boat, float plane, or helicopter at low tide.

#### History

Discoveries of barite and witherite at this location were first discussed by Buddington (1925). He described fissure-filling veins of barite at the northeast end of the island. In 1949 Jack Whitfield, Lueria Jordan, and Pete Hooper staked the Acme No. 1 and No. 2 claims (Rutledge, 1949). The Acme No. 2 was staked over the discovery mentioned earlier by Buddington (1925). The Acme No. 1 was staked on a similar zone at the northwest end of the island. These were later restaked in 1953 as the Katherine claims (Alaska Kardex, 1982). The only reported development is a "test pit" at the Acme No.1 claim (Rutledge, 1949).

#### Mineral Assessment

The island is made up of Silurian Kuiu Limestone, which has been locally faulted and intruded by gabbro dikes (Muffler, 1967). The limestone contains short veins, stringers, and small pods of barite and witherite.

At the northwest end of the island, BLM personnel sampled a barite stringer zone 1.5 feet wide, striking 338° and dipping 70° to 90° to the east (Map no. 6.1, sample 9613). The zone contains both irregular stringers and small pods of coarse-grained, bladed barite along with scattered sphalerite and galena. Sample 9613 contained 3.2 percent zinc, 2,355 ppm lead, and greater than 2.0 percent barium. A large stringer of witherite, extending 46 feet and having a strike of 004° to 025° and a dip of 75° to 85° to the southeast, was reported by Twenhofel and others (1949) at this location.

At the northeast end of the island, the limestone contains a zone of vuggy quartz veins and stringers, with drusy quartz lining the vugs. The zone is approximately 50 feet wide and extends 50 feet to tide water. It contains stringers of barite and pyrite with trace galena and pods of massive pyrite up to 0.6 feet wide and 1.0 foot long. The orientations of the veins, stringers, and pods are highly variable. Two samples were collected at this location. Pods of barite with pyrite, oriented north-south, contained 1,602 ppm arsenic and 7,107 ppm barium (Map no. 6.2, sample 9614). A sample of a pyrite lens contained 2,725 ppm arsenic and 8,498 ppm barium (Map no. 6.2, sample 157).

## Conclusions

This deposit includes relatively wide zones of fissure-filling veins of barite and small, discontinuous sulfide lenses in limestone. Mineralized rock was observed at both the northwest and northeast ends of the island, but the relationship between the two locations is unknown. Additional exploration inland might reveal larger replacement-type occurrences; however, any potential resource would be constrained by the size of the islet.

## SAGINAW BAY

(Plate 1, Map no. 7)

## Location/Access

At one time, the Saginaw Bay prospect included a block of claims covering sections 24, 25, and 36 of T. 57 S., R. 71 E. on the Port Alexander D-1 quadrangle. The block extended across the center of Cornwallis Peninsula on northern Kuiu Island, approximately 10 miles southwest of Kake. The occurrence can be reached by boat or helicopter, although on the north side of the peninsula, landing zones are scarce.

## History

Between 1978 and 1979, Mapco Inc. staked 108 claims in the Saginaw Bay area and listed zinc and lead as target commodities (Bureau of Land Management, MAS). The company's drilling program was limited to one hole that was located in the west-central part of section 24, T. 57 S., R. 71 E. of the Port Alexander D-1 quadrangle (Hedderly-Smith, 1993).

## **Mineral Assessment**

The Saginaw Bay prospect includes four stratigraphic units as mapped by Muffler (1967). The various rock types and orientations on the claim block are (1) Carboniferous crinoidal limestone, north-central; (2) the Permian Pybus Formation, southern; (3) the Triassic Keku volcanics, central (and structurally highest); and (4) the Triassic Cornwallis Limestone, extreme northwestern.

BLM personnel investigated the Pybus Formation along a small creek at the southern end of the claim block. The creek is located adjacent to the ruins of an old cannery on the northeast shore of Saginaw Bay. Field personnel collected one stream sediment and two rock chip samples (Map no. 7, samples 151-153). None of the these contained significant base- or precious-metal concentrations. The stream sediment sample, however, returned 1,079 ppm barium (Map no. 7, sample 153).

## Conclusions

It is not known what the original discovery was at this prospect or what the drilling target was besides the general lead and zinc commodity description. However, it is possible that lead and zinc sulfides were found replacing limestones. If this could be verified, then the potential extent of these replacement minerals would stretch from this occurrence to the Hungerford (Map nos. 8.1-8.2), approximately 3.8 miles to the southeast.

## HUNGERFORD

(Plate 1, Map nos. 8.1-8.2)

## Location/Access

The Hungerford prospect is located along the beach on the northeast side of Kuiu Island, approximately 7.5 miles southwest of Kake. The occurrence extends inland from the beach along a medium-size creek, locally called Hungerford Creek, that flows to the northwest. The shoreline southeast of the mouth of Hungerford Creek is steep, with bluffs adjacent to the intertidal zone. To the northwest, the shoreline is made up of moderately sloping gravel beaches. The area can be accessed by boat, float plane, or helicopter at low tide. This area was withdrawn from mineral entry in 1971 by the Alaska Native Claims Settlement Act for selection by Sealaska and Kake Tribal Corporation (the area's Native regional and village corporations) and is currently listed as interim conveyed, pending patent.

## History

Mineralized rock at the Hungerford prospect was first discovered by E.S. 'Ted' Hungerford in 1937 (Thorne, 1948), and in 1938 he staked the Children group of claims, presumably at the location of his discovery the year before. These included six placer and two lode claims (Alaska Kardex, 1982). The lode claims were reported by Roehm (1938a) to contain mineralized dolomites and conglomerate and to extend 3,000 feet inland from the mouth of Hungerford Creek. The placer claims, also described by Roehm (1938a), covered the area between the coast and the first mountain ridge inland. These contained considerable amounts of manganese. There is no report of how long these claims were held.

Conflicting reports indicate that in 1948 the Hungerford prospect was restaked. Thorne (1950a) states that six claims, the Hope 1 to 6, were staked by F.M. Hungerford and D.M. Hungerford in July 1948. However, Thorne (1948) also reports that E.S. Hungerford staked four claims in the same area-the White Hope, Bantam, Winner, and Heavyweight-in June of 1948. Regardless, by October 1948, the property was deeded to the Q-U Mining and Milling Co. by F.M. and D.M. Hungerford. Development on the property included a small cabin, several opencuts, blasting, and drilling (Thorne, 1950a).

At the request of the owner, the Bureau of Mines carried out a limited drilling program in January and February of 1949. The program consisted of drilling, sampling, and mapping the property and resulted in 982 total feet of diamond drilling in five holes (Thorne, 1950b).

## **Mineral Assessment**

The Hungerford prospect is located in the Triassic Keku Volcanics, very near an inferred fault contact with the lower volcanic member of the Carboniferous Saginaw Bay Formation and Silurian Kuiu Limestone (Muffler, 1967). During its investigation of the property in 1949, detailed mapping by the Bureau of Mines delineated six distinct units and three different types of lead-zinc mineralization. These units include (1) a slightly mineralized, poorly sorted, green, white, and red conglomerate exposed in the bed of Hungerford Creek, (2) an interbedded basalt and metamorphosed shale, (3) a dolomitic limestone with replacement mineralization along fractures, (4) a graywacke, (5) a gray to green amygdaloidal basalt with disseminated galena and sphalerite, and (6) a massive basalt with galena in narrow veins of quartz and calcite (Thorne, 1950a). These units seem to roughly correlate with those reported at the top of the Keku Volcanics by Muffler (1967). However, it should be noted that the unit mapped by the Bureau of Mines as a conglomerate appears to more closely resemble a sequence of green volcanics that has been fractured, with emplacement of pinkish barite, jasper, and disseminated galena in the fractures.

At the Hungerford prospect, lead and zinc mineralization appears in amygdaloidal basalt as disseminated galena and sphalerite. This can be seen in outcrop along a small bluff approximately 100 to 200 feet southeast of the mouth of Hungerford Creek. A sample of very fine-grained, disseminated galena and sphalerite from this outcrop assayed 84.7 ppm silver, 2.23 percent lead, and 7,028 ppm zinc (Map no. 8.2, sample 154). The Bureau of Mines drilling program defined this unit as the "ore body" and estimated a resource of "...63,000 tons of submarginal ore assaying 2.4 oz/ton silver, 1.35 percent lead, and 0.45 percent zinc" (Thorne, 1950b, p.1). The mineralized rock delineated by the diamond drilling and eight surface channel samples has an approximate thickness of 78 to 93 feet, trends northwest to southeast along a strike length of 280 feet, and dips 34° to the northeast. This mineralized unit runs into Keku Strait, both along the strike to the northwest, and down dip to the northeast. It is open along strike to the southeast of the delineated deposit. The diamond drilling indicates that the grade of the mineralized rock tends to decrease with depth (Thorne 1950a, 1950b).

Galena and sphalerite also appear as a stockwork of veins within a very conspicuous unit of fractured green volcanics in the bed of Hungerford Creek. This unit was previously mapped as a conglomerate (Thorne, 1950a). The sulfides are disseminated in a gangue of barite and jasper. A sample from this location yielded 16.4 ppm silver, 5,625 ppm lead, 6,019 ppm zinc, and greater than 2.0 percent barite (Map no. 8.2, sample 158). A similar unit crops out along the beach 1,400 feet to the northwest and has been described in earlier reports as the Hungerford "beach deposit" (Thorne 1950a). The outcrop displays textural evidence of open-space filling by pink barite and galena and subsequent brecciation. A sample from this outcrop contained 5.82 oz/ton silver, 2.84 percent lead, 2,228 ppm zinc, and 70 ppm barium (Map no. 8.1, sample 9577). Similarly mineralized rock was reportedly located on the beach 500 feet to the southeast of Hungerford Creek (Thorne 1950b).

Sphalerite and galena have also been reported to replace dolomite, where the dolomite is cut by fractures (Thorne, 1948). Thorne (1948) describes this replacement-type mineralization as cropping out in the "Bluff Deposit" located in the bluffs along the beach, presumably near the mouth of Hungerford creek.

## Conclusions

Lead and zinc are found disseminated in amygdaloidal basalt, as fracture- and open-space-filling veins in volcanics and volcanic breccia, and as replacing dolomite where it is cut by fractures. A BLM sample of mineralized amygdaloidal basalt, though not representative of the ore body, compared well with the grades reported by the Bureau of Mines (Thorne, 1950b). Further investigation of this property is warranted to characterize the prospect more completely and attempt to better define the extent of the

mineralized rock to the southeast. Additionally, the sulfide replacement of dolomite at the "Bluff Deposit" should be looked at more carefully and compared to the sulfide replacement in dolomites at the Kuiu Lead-Zinc prospect (Map nos. 5.1-5.2) located approximately 1.4 miles to the northwest.

# CORN

(Plate 1, Map no. 9)

## Location/Access

The Corn group of claims is located on the east shore of the Cornwallis Peninsula on northern Kuiu Island. The claims cover almost 1.8 miles of bluffy shoreline from the Hungerford prospect (Map nos. 8.1-8.2) southeast to a pronounced point, or nose, of the main ridge line on Cornwallis Peninsula. Mixed forest and muskeg cover the landscape inland from the beaches, and rock exposure is confined mostly to creeks. The beaches are accessible by small boat, float plane, or helicopter at low tide. Access inland must be by foot or helicopter, since the northeasternmost extent of the Kuiu Island logging roads ends short of the southern boundary of the claims. Much of the area was withdrawn from mineral entry in 1971 by the Alaska Native Claims Settlement Act for selection by Sealaska and Kake Tribal Corporation (the area's Native regional and village corporations). The land status is currently a mixture of selected Native and patented Native, including interim conveyances.

## History

From 1973 to 1974, two men, presumably working for Resource Associates of Alaska (RAA), staked the Corn group of claims, which consisted of 121 adjoining placer and lode claims (Alaska Kardex, 1982). These were leased to Cominco America in the mid-1970's, which then carried out detailed sampling, geophysical surveying, and a limited drilling program consisting of only two to three diamond drill holes. Mapco Inc. also leased the Corn claims from RAA sometime in the late 1970's and drilled at least one diamond drill hole in the area (but the description of its location is not on the Corn group of claims). RAA allowed the claims to lapse sometime in the 1980's (Hedderly-Smith, 1990).

## **Mineral Assessment**

The Triassic Keku Volcanics crop out across most of the Corn claims. However, in the southeastern and northeastern corners of the claim block, Triassic Cornwallis Limestone is exposed. The north-central part of the claims includes an uplifted block of Carboniferous volcanic rocks (Muffler, 1967).

BLM personnel accompanied by a USGS geologist investigated the northern part of the claim block; this included starting in the area of Hungerford Creek, going upstream to an upper tributary, and continuing up this northeast-flowing tributary to an elevation of 420 feet. Throughout the examination, field personnel observed mottled, light-brown-weathering rhyolite (maroon on fresh surfaces). In places, the rhyolite is brecciated. Barite was found in the upper tributary at elevations of 280 feet, 290 feet, and 400 or 420 feet. The lower exposure is a series of small pods, veins, and stringers of coarse-grained barite hosted in rhyolite. These outcrops are exposed intermittently across 200 feet of the creek bed. A barite boulder 1.3 feet long, 0.8 feet wide, and 0.6 feet thick was encountered at 290 feet elevation in the main creek. A sample of this boulder ran greater than 2.0 percent barite and 1.5 percent zinc with traces of copper and lead (Map no. 9, sample 9610). At an elevation of approximately 400 or 420 feet, small veins of barite are found in rhyolite with disseminated pyrite.

## Conclusions

The examination up Hungerford Creek revealed a thick section of rhyolite volcanics without significant sulfide concentrations and only a few barite veins. Sulfide mineralization appears to be confined to the vicinity of the Hungerford prospect along the faulted contact with older Carboniferous volcanics and Silurian marine clastic rocks. An examination of the shoreline to the east and up the small creek that empties into Keku Strait in the southeastern corner of section 34, T. 57 S., R. 72 E. would allow a comparison of the upper rhyolite section to that observed in Hungerford Creek. Additional mineralization might be expected along the beach to the east where Muffler (1967) has mapped a fault.

# SAGINAW BAY BARITE

(Plate 1, Map no. 10)

## Location/Access

The Saginaw Bay Barite occurrence is located on northwest Kuiu Island, midway along the southwest shoreline of Saginaw Bay, 12.5 miles southwest of Kake. The property lies along a narrow, rocky beach that drops steeply to the water. Access is via boat or float plane.

#### History

The discovery of barite at the Saginaw Bay prospect is first mentioned by Buddington while describing his field work in 1923 (Buddington, 1925). No staking or development work is mentioned by him, nor are there any other subsequent references.

#### **Mineral Assessment**

Barite at the Saginaw Bay occurrence is hosted in vuggy, black-weathered, thinly bedded limestone that strikes 320° and dips 50° to the northeast. The unit has been mapped as Silurian Kuiu Limestone by Muffler (1967). The barite crops out in a series of irregularly spaced, subparallel veins exposed along approximately 200 feet of shoreline. The veins strike 355° to 025° and dip 60° to 80° to the west. They pinch and swell along strike and have widths ranging from stringers to 2.5 feet. The most extensive vein is traceable along strike for 20 feet before being obscured by vegetative cover and tide water. The veins are composed of pinkish white, coarse-grained blades of barite with subordinate calcite stringers and, likely, witherite.

Two samples were taken of the barite veins exposed along the shoreline. Results show barium values greater than 2.0 percent (Map no. 10, samples 148, 9607).

## Conclusions

The presence of barite here is restricted to relatively small veins that are widely spaced. Similar to others on Cornwallis Peninsula, this occurrence, as exposed, is subeconomic.

# KADAKE BAY

(Plate 1, Map no. 11)

## Location/Access

The Kadake Bay occurrence is located on northeastern Kuiu Island along a small peninsula bounded to the west by Kadake Bay and to the east by Port Camden. It is approximately 12 miles south of Kake. The occurrence is exposed near the low-tide line and can be reached by boat, float plane, or helicopter.

## History

Uranium anomalies were first reported in the area by Eakins (1975) during an investigation of uranium locations in Southeast Alaska. His work included reconnaissance mapping, geochemical sampling, and a ground-based radiometric survey of approximately 5 miles of beach-from the mouth of Kadake Bay, south along the west side of Port Camden. In addition, Dickinson (1979) collected a series of samples that returned anomalous uranium values along the intertidal zone at the north end of the peninsula.

## **Mineral Assessment**

The rocks in the Kadake Bay area have been described in detail by Wright and Wright (1908), Buddington and Chapin (1929), and Muffler (1967). They consist of nonmarine sandstone, conglomerate, and lesser shale of the Lower Tertiary Kootznahoo Formation (Muffler, 1967). These sediments are thought to have been deposited in lakes or shallow basins with some areas of marsh land (Wright and Wright, 1908). The Kadake Bay occurrence lies mostly within medium-grained, angular quartz arenite. Thin beds (1 to 4 inches thick) of black carbonaceous shale with plant fossils are found in the sandstone; these give scintillometer readings slightly above background values.

The BLM collected samples from different fossiliferous shale beds that yielded values up to 46 ppm uranium, 23 ppm lanthanum, and 41 ppm cerium (Map no. 11, samples 174-175; Table A-3). These results, though anomalous, represent only a limited extent of the exposed rock.

## Conclusions

Anomalous rare-earth values were obtained in both sandstone (Dickinson, 1979) and black carbonaceous shale from the Kadake Bay area. However, the values are well below those required for an economically viable deposit. Based on the BLM's investigation, there seems to be little potential here for a rare-earth resource.

### KUIU

#### (Plate 1, Map nos. 12.1-12.4)

## Location/Access

The Kuiu occurrence is located on the east side of Kuiu Island, between Kadake Bay and Port Camden, approximately 12 miles south of Kake. It can be reached by small boat, float plane, or helicopter at low tide. Boat access into Kadake Bay is limited to medium and high tides due to the large tidal flats exposed at low tide.

#### History

T.F. Schorn staked the Kuiu 1-9 claims for gold at this location in 1976. Mapco Inc. staked the Krista claims at the same location in 1979. The Krista block of 21 claims may have overlapped the Kuiu claims or may have been located adjacent to them. There is no record of development work beyond the initial staking of both blocks (Alaska Kardex, 1982). This area was also investigated for uranium by Eakins (1975) and Dickinson (1979).

#### Mineral Assessment

The Kuiu occurrence lies within a section of the Tertiary Kootznahoo Formation that has been intruded by Tertiary gabbro (Muffler, 1967). Nonmarine Kootznahoo sediments crop out just inside the tree line along the beach.

BLM personnel collected one pan concentrate and eight stream sediment samples from several very small streams along the northwest side of Port Camden. The pan concentrate sample was taken from fine-grained sand found in a wooden box lying just above the high-tide line. This sample contained 2,255 ppb gold (Map no. 12.3, sample 170). Stream sediment samples contained up to 24 ppb gold and 37 to 130 ppm zinc (Map nos. 12.1-12.4, samples 168-169, 171-173, and 9624-26).

#### Conclusions

Stream sediment samples from the numerous small creeks draining into the northwest side of Port Camden revealed low gold and base-metal concentrations.

# **POINT SAINT ALBANS**

(Plate 1, Map nos. 13.1-13.3)

## Location/Access

The Point Saint Albans occurrence is located 1.5 miles north of Point Saint Albans on the southeast tip of Kuiu Island, 60 miles south of Kake. Access is by boat or helicopter at low tide.

#### History

The earliest recorded activity at the Point Saint Albans occurrence is credited to Fred Magill sometime prior to 1952. At that time, J.R. Houston visited Magill's zinc property to evaluate it for uranium potential (Houston and others, 1958). Claim records for Magill's Hot Spot claim appear in 1954 (Alaska Kardex, 1982), but there is no record of subsequent activity.

#### **Mineral Assessment**

The country rock in the general vicinity of the Point Saint Albans occurrence has been mapped as Silurian sedimentary rocks (Gehrels and Berg, 1992). Locally these fine-grained, medium-bedded rocks have been intruded by hornblende diorite and hornfelsed, cut by basaltic dikes, and faulted. The occurrence consists of shear zones containing sulfide minerals and small, sulfide-rich veins along dike margins. These zones are typically iron-stained, contain irregular quartz-calcite lenses, and range in width from 0.1 to 2.4 feet. They generally strike 280° to 325° and dip 20° to 56° to the southwest, but one shear dips 15° to the north. The mineralization is characterized by coarse-grained, disseminated sphalerite; very fine-grained, disseminated galena; very fine-grained, disseminated arsenopyrite; and fine-grained, disseminated pyrite. The sulfides commonly, although not exclusively, are found in the quartz-rich parts of the shear zones.

BLM personnel collected eight samples from different mineralized outcrops at the occurrence. Seven of the eight samples contained zinc values that ranged from 2,186 ppm to 2.4 percent (Map nos. 13.1-13.3, samples 177, 179-180, 9628-31). A sample from a 1-inch-wide band of pyrite, arsenopyrite, and sphalerite found along the margins of a hornblende diorite dike contained 5,535 ppb gold and 8,409 ppm zinc (Map no. 13.1, sample 9628). A sheared, sedimentary breccia with galena, sphalerite, and arsenopyrite contained 342.2 ppm silver, 8.15 percent lead, and 1.1 percent zinc (Map no. 13.2, sample 9631). A sample of a quartz vein containing galena, sphalerite, pyrite, and arsenopyrite returned 161.7 ppm silver, 9,834 ppm lead, and 2.4 percent zinc (Map no. 13.2, sample 180). During Houston's visit in 1952, a vein containing sphalerite was sampled and analyzed for uranium. The result is reported as 0.001 percent equivalent uranium (Houston and others, 1958).

#### Conclusions

Samples from the Point Saint Albans occurrence contained high concentrations of silver, zinc, and lead. One sample contained a high concentration of gold. These samples also contained anomalous amounts of antimony, arsenic, and cadmium. Although precious- and base-metal concentrations are elevated, samples were collected from scattered, narrow zones across a relatively wide area along the shoreline. The zones are too narrow and widespread to make a large, low grade deposit, but their large

aerial extent and high grade encourages further exploration. Further work to identify and more precisely characterize the mineralization at this occurrence is warranted.

# **KUPREANOF ISLAND**

Property name ..... Plate 1, Map no.

Pinta Point
Kake Area Road System 15-16, 18
Gunnuk Creek 17.1-17.3
Kane Peak 19.1-19.3
Portage Bay Pit 20
Northern Copper 21.1-21.3
Towers Creek
Salt Chuck 23.1-23.2
Portage Creek
Taylor Creek
Indian Point
West Duncan
Kupreanof Pyrite
Castle Island Mine 29.1-29.3
East Duncan Pyrite
Spruce Creek 31.1-31.3
Nicirque
Southwest Duncan Canal 33
ТВ
Monongehela 35



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# PINTA POINT

(Plate 1, Map no. 14)

## Location/Access

Pinta Point is situated at the northernmost tip of Kupreanof Island, 9 miles north-northeast of Kake. The occurrence at Pinta Point is exposed along the shoreline, in the intertidal zone and above the high-tide line. The area is accessible by boat and by helicopter. Land in the area is controlled by Kake Tribal and Sealaska Corporation (the area's Alaska Native Claims Settlement Act (ANCSA) Native village and regional corporations).

## History

BLM personnel discovered anomalous mineral concentrations during a reconnaissance investigation along the north shore of Kupreanof Island. No mention of this prospect is known in published literature.

## **Mineral Assessment**

The occurrence at Pinta Point is hosted in graphitic schist that is part of a unit mapped as metamorphosed, Upper Mesozoic, Stephens Passage Group (Brew and others, 1984). Near Pinta Point, the unit includes interlayered limestone, chert, felsic schist, and greenstone. The rocks are metamorphosed and have been multiply deformed.

The host graphitic schist is commonly silicious, dark gray, and well foliated. It has been penetratively and multiply deformed with tight to isoclinal folds, commonly on a scale of inches to a few feet. Foliation in the area trends generally northwest with steep dips. Near Pinta Point, the schist includes finely disseminated and massive sulfides, mainly pyrite and pyrrhotite, that can be found along approximately 500 feet of the shoreline. In places the sulfides make up 30 percent or more of the rock, in layers up to about 1 foot thick. One 15-foot-wide zone contains about 10 percent sulfides across its entire width. This zone is exposed for about 30 feet, between the boulder-strewn shoreline and brush inland. In another area, the graphitic schist with seams of pyrite is exposed in cliffs above the intertidal zone. Here the rock is poorly indurated, and its appearance is slaty. The sulfides at Pinta Point are mainly pyrite and pyrrhotite with small amounts of sphalerite and chalcopyrite.

BLM personnel sampled the mineralized rock; two samples were collected from the 15-foot-wide zone and one from the poorly indurated rock described above. Sample results indicate low precious- and base-metal values (Map no. 14, samples 2363-64, 2391). A representative sample across 11 feet of the zone contained 43 ppb gold, 143 ppm copper, and 624 ppm zinc (Map no. 14, sample 2363). A reconnaissance sample collected 1,000 feet west of Pinta Point from an isolated 1.5- by 2-foot lens of massive sulfide contained 661 ppm copper and 1,595 ppm zinc (Plate 2, Map no. R4, sample 2365).

# Conclusions

Sample results indicate very low precious- and base-metal values associated with the sulfides at Pinta Point; however, the broad extent of the minerals encourages further investigation of the area. This area lies within a belt of rocks that elsewhere hosts prospective volcanogenic massive sulfides (VMS) deposits. Additional work in the area is warranted.

# KAKE AREA ROAD SYSTEM

(Plate 1, Map nos. 15-16, 18)

## Location/Access

The small village of Kake (population 700) on northwestern Kupreanof Island is accessible by scheduled air service and by Alaska Marine Highway System ferry. The Kake Area Road System refers to the network of logging roads surrounding the village. The system includes the roads generally north of Kake belonging to the Kake Village Corporation (the area's ANCSA Native village corporation), as well as those east and southeast of Kake on Forest Service land. Many of the logging roads are still accessible by truck. However, some are overgrown with alders and are impassible. Still others are washed out or the bridges have been removed. Consequently, much of the area is only accessible by foot. The occurrences discussed below are all situated on Native land holdings.

## History

Only one occurrence is noted in the Kake area: Gunnuck Creek, located on Native Corporation land about 3 miles northeast of Kake. Four claims were staked in the area in 1968 that reportedly targeted lode gold (Alaska Kardex, 1982; Bureau of Land Management, MAS database). No production is known to have taken place on the property (see Gunnuck Creek, Map nos. 17.1-17.3).

BLM personnel discovered three anomalous mineral concentrations during reconnaissance of the Kake road system in 1998. There is no known mention of these in published literature.

## **Mineral Assessment**

The Kake road system area is made up mainly of Mississippian and Devonian argillite and graywacke of the Cannery Formation and Mesozoic phyllite and slate of the "Duncan Canal/Zarembo Island/Screen Island" sub-belt of Brew and others (1984). Cretaceous hornblendite and hornblende gabbro crop out at Turn Mountain, and several units of the Triassic Hyd Group are exposed west of there (Brew and others, 1984). All of these units are within the Alexander terrane (Silberling and others, 1994). Rocks in the area are unmetamorphosed or metamorphosed only to prehnite-pumpellyite or lower greenschist facies (Dusel-Bacon and others, 1996). Structures in the area trend generally to the northwest.

BLM personnel examined numerous rock pits along the Kake logging road system, particularly those of Kake Tribal Logging to the north of town. They also collected many reconnaissance samples from the pits (Plate 2), mostly of pyrite seams and segregations hosted in the argillite of the Cannery Formation. Three occurrences of note were discovered during the logging road examination: one consists of narrow sulfide veins; another, a lens or layer of massive barite; and the third, a shear hosting a layer of pyrite with chalcopyrite.

One mile northwest of Kake, two to three veins of sulfide minerals hosted in silicious argillite with calcite gangue are exposed in a rock pit. The veins average about 1 inch thick and extend

for about 20 feet where they are cut off by a fault in one direction and by cover in the other. Coarse, crystalline calcite is common adjacent to and within the sulfide veins as well as in veinlets in the silicious argillite. A representative sample of the sulfide-rich veins contained 1,135 ppb gold, 30.5 ppm silver, 7,327 ppm copper, and 5.4 percent zinc (Map no. 18, sample 3700).

About 3 miles southwest of Turn Mountain, BLM personnel sampled a lens of massive barite that also contains galena and sphalerite. The lens, about 2 feet thick and about 6 feet long, is exposed in unconsolidated soil above a logging road, so its relation to the country rock in the area is unknown. The country rock is mapped as Cannery Formation (Brew and others, 1984) and consists mainly of argillite. Clasts of argillite are common in the massive barite of the lens. A select sample of the lens contained 13.1 ppm silver, 1.02 percent lead, 3.0 percent zinc, and 48.37 percent barium (Map no. 16, sample 3705).

A small shear zone filled with quartz, potassium feldspar, epidote, and layers of pyrite and chalcopyrite was discovered about 1 mile south-southeast of Turn Mountain. The northeast-trending shear cuts hornblende diorite and is exposed in a rock pit. A layer of coarsely crystalline, weathered pyrite 1 to 3 inches thick with lenses of chalcopyrite is exposed for about 15 feet in a wall of the pit. A select high-grade sample of the sulfides contained 30.6 ppm silver, 11.2 percent copper, and 1,253 ppm molybdenum (Map no. 15, sample 3711).

## Conclusions

The sulfide vein near Kake is too small to be considered a resource. Additional follow-up work in the area may reveal the presence of other mineral concentrations, but a precious-metal resource hosted in small veins is unlikely.

The massive barite prospect is worthy of additional investigation. Barite is associated with other volcanogenic massive sulfide deposits in the area, so determining the mineralizing process related to the barite deposition is worthwhile. Finding additional barite and examining its relationship to the surrounding country rock would be beneficial.

The shear hosting pyrite and chalcopyrite is very limited in extent. Additional investigation is probably unwarranted.

# **GUNNUK CREEK**

(Plate 1, Map nos. 17.1-17.3)

## Location/Access

The Gunnuk Creek prospect is located about 3 miles northeast of Kake along Gunnuk Creek, which flows into Keku Strait at Kake. At this location, the creek flows gently within relatively subdued topographical relief. The area is accessible from the Kake road system; one of the Kake logging roads crosses Gunnuk Creek just below the prospect. The land in the area is controlled by Kake Tribal and Sealaska (the area's ANCSA Native village and regional corporations).

## History

Very little is known about the claims. They were originally staked in 1968 as the "ABC" claims in a 4-claim block. The target was apparently lode gold (Alaska Kardex, 1982).

#### **Mineral Assessment**

BLM personnel searched the Gunnuk Creek area where the prospect is reported to have been located (Alaska Kardex, 1982), but found no evidence of mineral activity. They collected five stream sediment samples from the area, but none of the samples revealed significant metal values (Map nos. 17.1-17.3, samples 3728-30, 8688-89).

## Conclusions

There is not enough information available about the Gunnuk Creek claims to assess their significance. However, the lack of information itself suggests that any deposit, if one did exist, would be of little importance.

# KANE PEAK

(Plate 1, Map nos. 19.1-19.3)

## Location/Access

The Kane Peak prospect is 13 miles northwest of Petersburg, on the northeast side of Kupreanof Island. Kane Peak is the easternmost member of the Missionary Range on the north end of Lindenberg Peninsula. The mineralized intrusive at the prospect extends east from near the summit of Kane Peak to the vicinity of Cape Strait on Frederick Sound. The area around the peak is relatively steep and rugged, but the terrain slopes more gently closer to tidewater at Frederick Sound. The mineralized intrusive body is exposed from sea level to an elevation of over 3,000 feet near the summit.

Most of the area is covered with muskeg, brush, and timber; the best mineral outcrops are at the shoreline and above the tree line. The use of a boat or float plane is the best way to access the shoreline. But the higher-elevation exposures on Kane Peak are most easily accessed by helicopter.

#### History

A.F. Buddington's examination of the Kane Peak area in 1923 is the first record of activity at the site (Buddington and Chapin, 1929). Kennedy and Walton of the USGS investigated the area in August 1943 and described the geologic features of the intrusive complex. They did not collect any samples for analysis, however, because the sulfide-bearing pyroxenite was reported to contain only 1 to 2 percent sulfides (Kennedy and Walton, 1946).

Kennedy and Tolstoy made a topographic map of the area in 1946. They also produced a detailed geologic map, but their study of the area was confined mainly to the southwestern part of the complex (Walton, 1951).

In 1960 the first known mineral claims on the site were staked by Joe Bigelow for magnetite. These coincided with a low ridge, parallel and adjacent to tidewater, about 1,000 feet northnorthwest of the mouth of Twelvemile Creek (Banister, 1962). In 1961 Joe and Esther Bigelow staked the Joyce Ann and Esther E. claims for iron. These were situated on the northwest side of Twelvemile Creek, south of Kane Peak (Alaska Kardex, 1982). No other claims or prospecting are known in the area.

In 1961 the Bureau of Mines, in connection with an iron resource study of Southeast Alaska, investigated the area for iron (Banister, 1962). There has been no production from the Kane Peak prospect.

#### **Mineral Assessment**

The occurrence at Kane Peak is associated with Cretaceous intrusive rocks of the Klukwan-Duke Plutonic Belt (Brew and Morrell, 1983). The ultramafic complex consists of wehrlite, dunite, and clinopyroxenite. Zone boundaries are poorly developed, and the major rock types are

gradational (Brew, 1971). The ultramafic body has intruded graywacke and biotite-quartz gneiss and is in turn intruded on the northwest by monzodiorite. According to Kennedy (1946), the central part of the complex is composed of dunite, wehrlite, and diopside pyroxenite. This ultramafic part of the complex is exposed in most of the outcrops on the peak. A band of hornblendite borders the ultramafic body on the north and south sides. Looking northward from a small lake south of Kane Peak, one can see a conspicuous band of brick-red stained, sulfidebearing pyroxenite on the peak's south slope. The staining is likely due to oxidation of sulfide minerals that make up only a small proportion of the ultramafic body (Kennedy, 1946).

Walton (1951) describes "appreciable" amounts of sulfide minerals "sporadically distributed" in the southwestern part of the complex–specifically pyrrhotite, pentlandite, and chalcopyrite. Although no economically significant masses of sulfides were discovered, Walton (1951) suggests that such masses may exist.

The Bureau of Mines examined an area north of Twelvemile Creek near tidewater, but nothing of economic significance was found. The work included a magnetometer survey that reportedly indicated subeconomic grades of iron (Banister, 1962). The iron-bearing magnetite bodies in hornblendite that were examined were too small and too low-grade to be of economic interest. A representative sample analyzed for titanium, vanadium, and copper also revealed low values (Banister, 1962).

In the summer of 1998, BLM personnel examined and collected 12 samples (Map nos. 19.1-19.3, samples 392-398, 2810-14) from the shoreline exposure of the unitariate body at Kane Peak. They collected six stream sediment and six rock chip samples. Exposures higher on the peak, especially the stained pyroxenite on the south slope, were not examined in 1998 due to poor weather. Analytical results from samples of the shoreline outcrops and stream sediments showed generally low metal values. Some samples had slightly elevated nickel (Map no. 19.2, samples 393-396) and chromium (Map nos. 19.1-19.2, samples 2813-14, 392-394). The highest were 316 ppm nickel (Map no. 19.2, sample 394) and 390 ppm chromium (Map no. 19.1, sample 2814). BLM personnel analyzed the samples for platinum group metals as well, but detected no anomalous values.

#### **Conclusions**

The ultramafic body at Kane Peak is similar to others in Southeast Alaska that have been prospected for iron, chrome, and platinum group elements. To date, no significant quantities of these elements have been found at Kane Peak.

# PORTAGE BAY PIT

(Plate 1, Map no. 20)

## Location/Access

The Portage Bay Pit is located on northern Kupreanof Island, half a mile south of the head of Portage Bay. The site is 14 miles northwest of Petersburg. The occurrence is exposed in a borrow pit from which material was removed to construct part of the Portage Bay road system. The road system extends around the bay, connecting the borrow pit at the head of the bay with the log transfer facility and logging camp near its mouth. The bay is accessible by boat or float plane; and the pit, by road or helicopter.

#### History

In 1998 BLM personnel discovered copper and molybdenum in a borrow pit south of Portage Bay. No mention of this site is known to exist in published literature.

#### Mineral Assessment

The country rock exposed in the Portage Bay Pit is a fine- to medium-grained, dark gray to dark green diorite(?). Geologic maps of the area do not indicate the presence of an intrusive body in the immediate area; however, Cretaceous age quartz monzonite to diorite bodies have been mapped to the north and south of the pit (Brew and others, 1984; Brew, 1971).

Pyrrhotite is almost ubiquitous in the intrusive and makes up about 1 to 2 percent of the rock. Very fine-grained, disseminated chalcopyrite is also common across the pit, but makes up only a fraction of a percent of the rock. Pyrite is also common. The sulfides commonly occur as thin coatings on fracture surfaces. Rare coatings of molybdenite are also present on fracture surfaces.

Several faults cut the intrusive in the pit. Along the faults, sulfides are commonly concentrated in the sheared and altered rocks. One of the faults, oriented approximately 315°, 77 northeast, contains bands of sulfides that include mainly pyrrhotite with chalcopyrite, sphalerite, galena, arsenopyrite, and pyrite.

To the north of the pit, the hornfels that hosts the intrusive is exposed. The host rock is finegrained and well indurated, with evidence of bedding planes in some places indicating that it is likely a metasediment. The rocks in the area have been mapped as Cretaceous phyllite, derived from sediments of the Jurassic to Cretaceous Seymour Canal Formation (Brew and others, 1984; Brew, 1971).

BLM personnel surveyed the Portage Bay rock pit and collected 12 samples. The average of four random, representative samples collected across the pit was 163 ppm copper (Map no. 20, samples 2803-06). These samples ranged in length from 8 to 20 feet. Higher-grade samples were collected from sulfide-rich, silicified zones that seem to be concentrated near faults. Examples of these altered zones were found in one place on the northwest side of the pit as well as in rubble on the pit floor. One select sample of sulfide-rich material contained 3,271 ppb

gold, 13.9 ppm silver, 3,025 ppm copper, 4,708 ppm lead, 1.4 percent zinc, and 9,762 ppm arsenic (Map no. 20, sample 3674). Other samples contained up to 855 ppm molybdenum (Map no. 20, sample 3678), and 1,365 ppm nickel (Map no. 20, sample 3682).

## Conclusions

The disseminated nature of the pyrrhotite and minor chalcopyrite in the intrusive rock exposed in the Portage Bay Pit suggests the potential for a porphyry-type deposit. However, there are no significant porphyry systems of Cretaceous age known in the area. The altered zones, which returned noteworthy analytical results, deserve additional investigation. An attempt could be made to determine the extent of the intrusive and any additional fault-related mineralized zones.

# **NORTHERN COPPER**

(Plate 1, Map nos. 21.1-21.3)

## Location/Access

The Northern Copper prospect is located at the north end of Duncan Canal on north-central Kupreanof Island, 17 miles west-northwest of Petersburg. The prospect sits at an elevation of approximately 1,300 feet on the south face of Kupreanof Mountain. The topography in the area is moderately steep. Dense conifer forest covers the ridge slopes, and muskegs are common on the ridge crest. Covering the prospect are four patented mining claims (MS 652) that at one time were an inholding within the Petersburg Creek-Duncan Salt Chuck Wilderness area (as defined by the Alaska Native Claims Settlement Act (ANILCA), 1980). The patented claim holders subsequently turned the property over to the Forest Service to manage as wilderness. Access is most easily accomplished by taking a helicopter to the ridge crest above the property (which marks the boundary of the wilderness area) and then descending to the prospect on foot.

#### History

The claims at Northern Copper were first staked in 1900 (Wright and Wright, 1908). They were active between 1900 and 1901 and between 1918 and 1921. Between 1900 and 1901, the claims were held by the Portage Mountain Mining Co., which also held claims about 6 miles to the east on Portage Mountain. This company prospected the claims with adits and shafts (Wright and Wright, 1908). Sometime after 1906, the property was acquired by the Kupreanof Mining Co., which began the construction of a plank road to tidewater in 1918. The road was intended to connect to an aerial tram, which, in turn, was to connect to the prospect on the mountainside above (Buddington, 1923). The tram was apparently never constructed, as no evidence or mention of its existence was found. In 1920 the claims were purchased by the Northern Copper Co., which began developing the prospect by extending adits as well as cutting trenches, opencuts, and pits (Buddington, 1923). Development ceased in 1921, and the property remained idle until it was restaked in 1944 (U.S. Bureau of Mines, 1945). Bureau of Mines and USGS personnel examined the property in the 1940's (U.S. Bureau of Mines, 1945; Twenhofel and others, 1949). The renewed interest was probably driven by demands of the war effort. After the 1940's, there is no published evidence of activity at the site until the late 1970's.

In 1978 Amoco Minerals Co. (Amoco) staked a large block of claims at the north end of Duncan Canal that covered the Northern Copper prospect. In 1978 and 1979, the company carried out airborne geophysical surveys; ground electromagnetic, magnetic, and gravity surveys; geologic mapping; soil and stream sediment geochemical sampling; and core drilling. In the Northern Copper area, weak airborne EM anomalies were further delineated by ground EM and soil geochemical surveys. Six diamond drill holes were subsequently drilled to evaluate the anomalies (Zelinski, 1979?; Amoco Minerals Company, 1979).

Four claims belonging to the Kupreanof Mining Co. were patented in 1907 (Bureau of Land Management, MAS) in the name of John Johnston (Patent No. 44523; Patent Plat), who may have been a representative of the Portage Mountain Mining Co., the likely claim holders at the

time of patent. These four claims were acquired by Boochever, Dubuar, and Hansen, who then deeded the property to the Forest Service for inclusion in the Petersburg Creek-Duncan Salt Chuck Wilderness area in 1995.

#### **Mineral Assessment**

The Northern Copper prospect lies within an undifferentiated belt of volcanic rocks (Brew and others, 1984; Brew, 1997m) that elsewhere in the Duncan Canal area are associated with VMS deposits. New mapping in the area by Karl and others (1999) after the release of airborne geophysical data (ADGGS, 1997a-m) dates the Northern Copper host rocks as Devonian. The mineralized rock has been described as a replacement-type deposit by past investigators (Buddington, 1923; U.S. Bureau of Mines, 1945; Twenhofel and others, 1949) and, as such, may not be related to Triassic VMS deposits in the area.

Historic developments at Northern Copper include numerous workings, many of which are now caved and overgrown. Most of these are concentrated at an elevation of about 1,300 feet, where a shaft and at least eight trenches, opencuts, and pits have been developed. The shaft, when examined in 1998, was 28 feet deep, although two earlier reports give different descriptions–50 feet deep (U.S. Bureau of Mines, 1945) and 40 feet deep with a drift at the bottom (Twenhofel and others, 1949). Three adits were also developed on the property. One, at an elevation of about 1,200 feet, was driven to undercut the mineralized rock exposed in the shaft. It is presently caved, but was reportedly 354 to 375 feet long (U.S. Bureau of Mines, 1945, and Twenhofel and others, 1949, respectively). A second adit, 30 feet long, lies about 1,500 feet northeast of the shaft at an elevation of about 1,100 feet. It was cut to follow a band of mineralized rock exposed in a small, adjacent creek bed. BLM personnel located a third adit at an elevation of about 1,180 feet on the north side of a small creek that flows to the east, draining the area of the main workings. The adit extends for 285 feet and exposes bands or layers of mineralized rock from near its portal to its face.

The BLM's investigation included surveying the main workings; mapping and sampling the shaft and two open adits; and mapping and sampling where mineralized rock was easily exposed in the trenches, pits, and opencuts. Because much of the area is overgrown, the investigation was confined to discrete outcrops, which present an incomplete picture of the nature of mineralization in the area.

Mineralized rock is exposed in three main places in the Northern Copper area; (1) near the main workings, in the shaft and adjacent trenches (Map no. 21.3), (2) in the 285-foot adit (Map no. 21.2), and (3) in the 30-foot adit (Map no. 21.1).

Mineralized rock in the area of the main workings consists of sulfide-bearing greenstone and greenstone schist. The sulfides are mainly pyrrhotite with pyrite, chalcopyrite, and sphalerite. They occur in massive lenses, as well as patches and disseminations within the host rock. Two lenses of massive sulfide are partially exposed in the main trench. Their largest dimensions are only about 2-3 feet. The lenses are hosted by greenstone schist at the base of a massive greenstone bed. Disseminated sulfides are found concentrated in the greenstone along with

skarn minerals. The massive lenses generally contain more chalcopyrite than sphalerite; whereas, the disseminated sulfides in the greenstone generally consist of more sphalerite than chalcopyrite.

Skarn minerals include garnet and radiating crystals of pyroxene, likely altered to amphibole. The skarn minerals are generally restricted to the massive greenstone units and are commonly accompanied by silicification of the greenstone. Pure, coarsely crystalline marble is found in layers and lenses that are commonly oriented parallel to the foliation/layering in the greenstone schist and greenstone. Nowhere were sulfides, particularly massive sulfides, found associated with the marble.

The second mineralized interval in the main workings area is described in an unpublished Amoco report on the Northern Copper area (Zelinski, 1979?). It occurs in gray argillites about 80 feet stratigraphically below the massive greenstone bed exposed in the main trench. The massive sulfides in this interval are mainly pyrrhotite with variable amounts of chalcopyrite. Samples as high as 22.4 percent copper were collected, but the massive sulfide layer was not found to exceed a thickness of 2 feet at any point. The zone is said to be relatively continuous, but the grades are variable (Zelinski, 1979?).

BLM personnel collected 36 samples form the shaft, trenches, pits, and dumps in the main workings area. Analytical results revealed elevated concentrations of copper and zinc, with minor silver and trace gold. The highest copper values were 1.7 percent copper over 1.5 feet (Map no. 21.3, sample 8684) 1.4 percent copper over 1.8 feet (Map no. 21.3, sample 3714), and 3.5 percent copper in a select sample from an outcrop (Map no. 21.3, sample 3666). Zinc values ranged up to 1.2 percent over 3 feet (Map no. 21.3, sample 108) and 2.4 percent over 1.5 feet (Map no. 21.3, sample 3715) in silicified greenstone. Silver and gold values ranged up to 32.6 ppm silver (Map no. 21.3, sample 3666) and 165 ppb gold in a massive sulfide lens (Map no. 21.3, sample 3725).

Mineralized rock exposed in the 285-foot adit consists of two types: massive sulfide layers and disseminated sulfides. A continuous layer of massive pyrrhotite with chalcopyrite and minor sphalerite, 0.2 to 1.7 feet thick, is exposed for about 100 feet near the face of the adit. The layer is offset in four or five places by apparent dip-slip movement on northeast-striking, southeast-dipping faults. The massive sulfide layer is hosted by greenstone schist and is commonly on or near the contact with dark gray to black, fine-grained phyllite, which it structurally overlies. Samples across the layer of massive sulfide ranged up to 3.1 percent copper and 1,427 ppm zinc over 0.6 feet (Map no. 21.2, 3685), and 2.5 percent copper over 1.4 feet (Map no. 21.2, sample 3806). Precious metal values in the massive sulfide are low; they range up to 29 ppb gold (Map no. 21.2, 3806) and 11.5 ppm silver (Map no. 21.2, 3685).

The second type of mineralized rock in the 285-foot adit consists of a silicious band of greenstone schist containing pyrrhotite (both disseminated and in veinlets) and very minor chalcopyrite. This band structurally underlies the layer of phyllite described above. Analytical

results indicate little significance to this second type of mineralized rock. Results ranged up to 860 ppm copper and 369 ppm zinc over 2.2 feet (Map no. 21.2, samples 3810, 3687).

The 30-foot adit northeast of the main workings was driven to cut a band of massive sulfide exposed in a small creek. The band is concordant to foliation in the host rocks; it strikes 330° to 345° and dips about 10° to 30° to the southwest. The band is from 0.25 to 2 feet thick and is exposed for about 20 feet along strike, both in the adit and in the adjacent creek. It consists of pyrrhotite, pyrite, and chalcopyrite. Samples from the band of sulfides contained up to 12.4 percent copper over 2 feet (Map no. 21.1, sample 415). Precious metal values from samples of the sulfide band were higher than elsewhere in the Northern Copper area, but still were low. Gold values ranged up to 440 ppb (Map no. 21.1, sample 417) and silver to 37.7 ppm (Map no. 21.1, sample 415).

### Conclusions

Since the Northern Copper property is now part of the Petersburg Creek-Duncan Salt Chuck Wilderness area, evaluation of the property is useful only to provide insight into other mineral prospects in the Duncan Canal area. Karl and others (1999) assign Devonian age to the rocks in the Northern Copper area, and as such, the rocks would not be associated with Triassic VMS deposits in the area. As a replacement deposit, the occurrence at Northern Copper is of less significance. The mineralized zones are relatively thin. And though they are exposed over a large area, they make up only a small percentage of the host rock. Precious-metal values are also low.

# **TOWERS CREEK**

(Plate 1, Map nos. 22.1-22.3)

## Location/Access

The Towers Creek prospect is located above a waterfall in Towers Creek, at an elevation of 140 feet. It is about 1.5 miles from the head of Towers Arm and 18 miles west-northwest of Petersburg. The topography of the area is gently sloping, with muskegs, dense brush, and thick timber stands. Short cliffs border the creek near the prospect, and access is most easily accomplished by helicopter. Investigators must land nearby and hike down a short cliff to the prospect in the creek.

## History .

In 1978 Amoco Minerals Co. staked a large block of claims covering the Towers Creek prospect at the north end of Duncan Canal. In 1978 and 1979, the company carried out airborne geophysical surveys; ground electromagnetic, magnetic, and gravity surveys; geologic mapping; soil and stream sediment geochemical sampling; and core drilling on their claims.

## **Mineral Assessment**

The Towers Creek prospect is located near the contact between Devonian schists and phyllites, and Triassic Hyd Group argillite (Karl and others, 1999). The rocks trend west to northwest and dip 25° to the northeast.

The BLM's examination of this prospect revealed an outcrop/boulder in the middle of the creek that consists of iron-stained, limey, silicified schist containing disseminations and narrow bands of pyrite with sparse chalcopyrite. Six samples across the schist and pyrite bands contained from 175 to 713 ppm copper (Map no. 22.1, samples 111-113, 270-272). Two stream sediment and three rock chip samples collected in Towers Creek, downstream from the prospect, did not contain significant metal values (Map nos. 22.2-22.3, samples 2345-47, 9558-59).

## Conclusions

The BLM's examination of the Towers Creek prospect did not reveal significant mineralized rock.

## SALT CHUCK

(Plate 1, Map nos. 23.1-23.2)

## Location/Access

The Salt Chuck prospect is located on the peninsula between Towers Arm and North Arm at the head of Duncan Canal on Kupreanof Island, 15 miles west of Petersburg. The topography of the area is gently sloping, with muskegs, dense brush, and thick timber stands. The area was temporarily withdrawn from mineral entry in 1978 until RARE II (Roadless Area Review and Evaluation) wilderness areas had been designated by Congress. In 1980 the prospect was included in the Petersburg Creek-Duncan Salt Chuck Wilderness area (defined by ANILCA, 1980). Access to the prospect is by boat, on foot, or by helicopter–if special permission is obtained to access the wilderness area.

#### History

In 1978 Amoco Minerals Co. (Amoco) staked a large block of claims covering the Salt Chuck prospect at the north end of Duncan Canal. The company's geologists were among the first to recognize the importance of volcanogenic massive sulfide deposits in the Duncan Canal area. In 1978 and 1979, the company carried out airborne geophysical surveys; ground electromagnetic, magnetic, and gravity surveys; geologic mapping; soil and stream sediment geochemical sampling; and core drilling. In the Salt Chuck area, airborne EM anomalies were further delineated by ground EM and soil geochemical surveys. Five diamond drill holes were subsequently drilled to evaluate these anomalies (Zelinski, 1979?); Amoco Minerals Company, 1979).

#### **Mineral Assessment**

The Salt Chuck prospect is hosted in Devonian phyllite, schist, and greenstone (Karl and others, 1999). The rocks trend northwest and dip steeply to the east.

The prospect is defined by an 8,000-foot-long, northwest-trending geophysical anomaly identified by airborne and ground geophysics. Three verified bedrock conductors are shown on an Amoco map. Five holes were drilled into the Salt Chuck anomaly. They range in length from 600 to 1,000 feet and explore the anomaly about 5,000 feet along strike. Amoco describes the massive sulfide bands on this prospect as thin, discontinuous, and generally low-grade. The best intersections occurred in one hole where 1.7 feet averaged 1.86 percent copper and another 10 feet averaged 0.877 percent copper (Zelinski, 1979?; Amoco Minerals Company, 1979).

Amoco geologists discovered two mineralized outcrops during their examination of the prospect. The westernmost is located on the peninsula between Towers and North Arms, 3 miles north of the peninsula's tip and 2,000 feet inland from North Arm. The outcrop is located midway along the length of the anomaly and is described as a 10-foot-long by 5-foot-wide band of chalcopyrite hosted in rhyolite. (There is an inconsistency between the text description given above and an

Amoco map that indicates a 16-foot sample/outcrop.) Amoco samples collected across the outcrop averaged 6.3 percent copper, 0.02 percent zinc, and 0.32 oz/ton silver. The other mineralized zone is located 2,000 feet to the east, on the west side of Towers Arm. Here, three sulfide bands are exposed along the beach; each is less than 6 inches wide and composed of chalcopyrite, sphalerite, and galena hosted in rhyolite. The bands contain from 0.01 to 0.13 percent copper, 0.10 to 25.3 percent lead, 0.15 to 7.8 percent zinc, and from 0.2 to 13.62 oz/ton silver (Zelinski, 1979?; Amoco Minerals Company, 1979).

The BLM's examination of the Salt Chuck prospect revealed bands of disseminated to massive sulfides at two locations, called the "Salt Chuck Copper" to the west and "Salt Chuck Zinc" to the east (Map nos. 23.1-23.2). These are at or near the two mineralized locations described above by Amoco geologists.

The Salt Chuck Copper occurrence consists of a band of sulfides exposed in three cuts. The cuts are up to 4 feet wide and are aligned along strike and separated by 84 feet and 30 feet of muskeg. The host rock is rusty yellow, iron-stained, silicified chlorite schist. It is more resistant to weathering than the surrounding rock, so it forms ridges that stand out above the surrounding muskeg. The mineralized band is conformably hosted in schist that strikes 320°, dips steeply to the northeast, and is coincident with the geophysical anomaly. The band contains disseminated to massive pyrite and chalcopyrite. Samples averaged across 3.8 feet at the northernmost outcrop contained 0.8 percent copper and 3.4 ppm silver (Map no. 23.1, sample 269). A 1.3-foot-long sample across the most mineralized part of the middle outcrop contained 3.0 percent copper and 2.8 ppm silver (Map no. 23.1, sample 513). A 0.4-foot, high-grade sample from the northernmost outcrop contained 7.1 percent copper and 9.9 ppm silver (Map no. 23.1, sample 109).

At the Salt Chuck Zinc location, silicified schist hosts narrow, conformable quartz veins. One of these veins, 0.5 feet thick, contains blebs and bands of pyrite and sphalerite. A sample across it contained 5,898 ppm zinc (Map no. 23.2, sample 115). A 1.2-foot sample across adjacent pyritized, silicified schist did not contain significant metal values (Map no. 23.2, sample 114). A 0.075-foot-thick vein in the vicinity contained 2.3 percent zinc (Map no. 23.2, sample 9647).

#### Conclusions

The Salt Chuck prospect is hosted in Devonian rocks (Karl, and others, 1999) instead of the Triassic rocks that are known to contain numerous significant volcanogenic massive sulfide deposits in the Duncan Canal area. However, the conformable character and extent of the sulfide mineralization suggests volcanogenic massive sulfide origins. The prospect has been sufficiently explored by shallow drilling to preclude a significant near-surface deposit. It would be of interest to recheck the Amoco map where a 16-foot-wide zone averaging 6.3 percent copper is described (Amoco Minerals Company, 1979). The wilderness land designation covering the Salt Chuck prospect prohibits exploration and mining in the immediate area.

# **PORTAGE CREEK**

(Plate 1, Map nos. 24.1-24.2)

## Location/Access

The Portage Creek prospect is situated on Portage Mountain, east of the head of Duncan Canal on Kupreanof Island. It is about 12 miles northwest of Petersburg and lies within the Petersburg Creek-Duncan Salt Chuck Wilderness area. The prospect is located at an elevation of about 400 feet on the west side of Portage Mountain. Mineralized rock is found mainly on the north side of a small creek that flows west-southwest. The slopes of the mountain extend from sea level to an elevation of over 3,600 feet. The area is covered by conifer forest. Access is easiest by helicopter to a muskeg north of the creek exposure; however, helicopter access is restricted due to the area's wilderness designation. Overland access is possible from North Arm on Duncan Canal.

#### History

Several authors have written about prospects that were active in the early 1900's on the west side of Portage Mountain. Review of the early reports indicates that at least two different prospects are described, one now called "Portage Creek" and the other called "Portage Mountain Group." The Portage Creek prospect refers to sulfides in hornblendite; the Portage Mountain Group refers to gold in quartz veins. Two other names are associated with prospects in the area, the Portage Mountain Mining Co. and the Portage Bay Copper Co. (Wright, 1907; Roehm, 1945). Both of these are believed to be associated with the Portage Mountain Group prospect; however, this prospect was not examined by BLM personnel in 1997 or 1998, and it is not included in this interim report.

The date of discovery of Portage Creek is unknown. Buddington (1923) reports opencuts on the Silver Star claim in 1921, which along with the Silver King claim, made up the 2-claim block in the area. No other development has taken place at the prospect.

## **Mineral Assessment**

The mineralized rock at Portage Creek consists of seams and disseminations of sulfides in hornblendite that appears to be a magmatic segregation from the dioritic country rock in the area. An Upper Cretaceous mafic intrusive has been mapped in the area and described as quartz monzodiorite to diorite (Brew and others, 1984).

Mafic segregations with sulfides are exposed in Portage Creek between about 360 and 480 feet in elevation. In this area, at least five outcrops of hornblendite or hornblende diorite with disseminated pyrrhotite, pyrite, and chalcopyrite can be found. Three are on the north side of the creek, and two are on the south side. The rock is commonly green-gray to black, coarsely crystalline with prominent phenocrysts of hornblende and biotite. Much of the hornblende-rich rock deteriorates upon weathering and crumbles easily.

The largest outcrop of mineralized rock is exposed along the north bank of the creek at an elevation of about 450 feet. Poorly indurated, hornblendite is bounded by hornblende diorite and exposed for about 60 feet along the creek bank. The hornblendite is cut by partially assimilated dikes of diorite and broken basalt dikes. Foliation in the hornblendite strikes west to northwest and dips steeply. Veinlets and stringers of pyrite and pyrrhotite up to 1 inch thick are common in the hornblendite and make up about 5 percent of the rock. Copper staining indicates the presence of copper minerals, but they likely make up less than 1 percent of the hornblendite.

BLM personnel collected 17 samples from the outcrops along Portage Creek (Map nos. 24.1-24.2). All of them indicate the presence of minor amounts of copper, and some contained a trace of platinum and palladium, but little else. Seven samples were collected from the main outcrop on the northwest side of Portage Creek, where the highest copper values were found (Map no. 24.1, samples 138-141, 2367-69). Samples ranged up to 4,666 ppm copper over 15 feet (Map no. 24.1, sample 139) and 2,597 ppm copper over 40 feet (Map no. 24.1, sample 2367). Ten samples collected from other sulfide-bearing outcrops below the main one on Portage Creek indicate lower copper values. Of these, a grab sample yielded the highest copper value of 925 ppm (Map no. 24.1, sample 62). The highest platinum value was 39 ppb (Map no. 24.1, sample 136) over 18 and 27 feet respectively.

## Conclusions

The deposit at Portage Creek appears to be a magmatic segregation of sulfides from the mafic portion of an intrusive mass. Although sulfide mineralization is exposed for a large distance along Portage Creek, the precious- and base-metal values are low. In addition, the area is covered by a wilderness designation, which prohibits mineral development.

# TAYLOR CREEK

(Plate 1, Map nos. 25.1-25.2)

## Location/Access

The Taylor Creek prospect is located near the head of Duncan Canal, 16 miles west of Petersburg. The prospect is exposed in Taylor Creek (about 1.5 miles upstream from tidewater) and on a small knoll to the north. The topography of the area consists of low hills covered by brush, timber, and muskeg flats. The outcrop in the creek lies at an elevation of about 160 feet; the outcrop on the knoll to the north, at about 400 feet. Access by helicopter is easiest; however, boat access to the mouth of Taylor Creek is possible at high tide.

## History

Claims were first located at Taylor Creek in 1903 (Kerns, 1950) or 1904 (Wright and Wright, 1908). Early development to expose mineralized rock consisted of a 30-foot trench (Wright and Wright, 1908). Additional claims were staked in the area in 1912 (Alaska Kardex, 1982), but the trench remained the only development on the property until the 1940's (Kerns, 1950).

In 1946, six claims were staked over the property, and a few small pits were excavated (Kerns, 1950; Alaska Kardex, 1982). In 1948 the Bureau of Mines cut 280 feet of trenches and drilled 770 feet of core in four holes to evaluate the property (Kerns, 1950).

No published work has been accomplished at Taylor Creek since the 1940's. It has been investigated briefly by various workers, more as part of an inventory than an investigation of mineral potential (e.g., Grybeck and others, 1984; C.D.Taylor, written commun., 1998). In 1997 Kennecott Exploration, Inc., staked a block of claims that covered the Taylor Creek prospect, but results of its investigation have not been released to the public.

#### **Mineral Assessment**

The Taylor Creek prospect is hosted by dolomite that has been included in a unit of undifferentiated Hyd Group rocks of Triassic age (Karl and others, 1999). Units in the area strike to the northwest and dip to the northeast. Regional structures include broad, open folds with northwest-oriented axes and southwest-verging thrust faults (Karl and others, 1999).

Because of the detailed evaluation, including mapping, trenching, and drilling by the Bureau of Mines at Taylor Creek, BLM personnel restricted their investigation to corroborating the published geology and sample results. The following geologic description is taken from Kerns (1950, pp. 4-5):

The deposit was found to occur as patches that appear to replace the dolomitic limestone. The patches of mineralization are small, irregularly shaped, and distributed and do not occur in any recognizable pattern. The mineralized sections of the dolomitic limestone are better cemented and more blocky than the

surrounding broken and fractured dolomitic limestone. The patches of minerals range from 2 to 12 feet in width and 4 to 10 feet in length.

The deposit consists of a dissemination of galena and sphalerite associated with much pyrite and some marcasite. Pyrite is the predominant mineral, and the greatest amount of galena and sphalerite occurs where there is an abundance of pyrite.

Very little sulfide was found in the gray-banded limestone that appears to underlie the buff dolomitic limestone or in the greenstone that appears to underlie the graybanded limestone.

The four Bureau of Mines drill holes at Taylor Creek ranged in length from 66 to 291 feet. The best intercept was 5 feet of 0.8 oz/ton silver, less than 0.1 percent lead, and 2.5 percent zinc. The highest lead value was in a 3-foot intercept of 0.6 percent lead, 0.5 oz/ton silver, and 0.35 percent zinc. Surface samples that were cut across patches of mineralized rock exposed in the trenches north of Taylor Creek had higher values. Results include: 9 feet of 0.5 oz/ton silver, 0.7 percent lead, and 4.3 percent zinc and 12 feet of 1.0 oz/ton silver, 0.45 percent lead, and 1.4 percent zinc (Kerns, 1950).

BLM personnel collected seven samples from outcrops, trenches, and dumps at Taylor Creek. The best samples include 0.7 feet at 25.9 ppm silver, 7.72 percent lead, and 6.9 percent zinc (Map no. 25.1, sample 53), a select sample with greater than 500 ppm silver, 7,217 ppm lead, and 2.1 percent zinc (Map no. 25.1, sample 54), and a grab sample of gossan that returned 903 ppb gold, 160 ppm silver, 9.69 percent lead, and 3.0 percent zinc (Map no. 25.1, sample 226). Several of the Taylor Creek samples also had elevated concentrations of arsenic, barium, and mercury.

The results of the Bureau of Mines drilling indicated the lack of an ore body at Taylor Creek, so no attempt was made to estimate tonnage and grade (Kerns, 1950). H.M. Fowler, a mining engineer with the Alaska Territorial Department of Mines, suggested that a lack of trenching prior to the drilling caused the Bureau of Mines to misplace their drill sites, which resulted in the agency's failure to adequately evaluate the mineralized zone (Fowler, 1948). No additional published work has been done at Taylor Creek, so the presence of an ore body is still in question.

## Conclusions

The extensive work done by the Bureau of Mines at Taylor Creek, as well as the work of others, suggests only a minor potential for a significant deposit at the site. The replacement nature of the mineralized rock at Taylor Creek is similar to that in other places in the Stikine area, e.g., Cornwallis Peninsula. Although the replacement-type mineralization may be related to the VMS deposits in the area, it seems to have less mineral development potential than the bedded VMS deposits.

# INDIAN POINT

(Plate 1, Map no. 26)

## Location/Access

The Indian Point occurrence is located in the intertidal zone near Indian Point, about 14 miles west-southwest of Petersburg. Access to the prospect is by boat.

## History

Four lode claims were staked at Indian Point in 1977 (Alaska Kardex, 1982). No other published reference to the site is known.

#### **Mineral Assessment**

The Indian Point prospect is hosted in Mesozoic phyllite and slate near its contact with Mesozoic gabbro (Brew, 1997j).

The BLM's examination revealed a 0.15-foot-thick, silicified pyrite band conformably hosted in sericite schist. Foliation in the schist strikes 350° and dips 32° to the east. The band is exposed through beach gravel in the intertidal zone for about 10 feet. Samples collected from the band contained up to 187 ppb gold (Map no. 26, samples 50, 224).

## Conclusions

The sulfide occurrence at Indian Point is of very limited extent and contains low base- and precious-metal values. As a consequence, this area is unlikely to attract mineral exploration interest.

# WEST DUNCAN

(Plate 1, Map no. 27)

## Location/Access

The West Duncan prospect is located on the west side of Duncan Canal about 16 miles southwest of Petersburg. Situated near the intertidal zone at the mouth of a creek 2 miles north of Castle River, West Duncan is accessible by helicopter, float plane, or boat; however, float plane and boat access are inhibited by tidal mud flats that extend for over a mile.

#### History

Grybeck and others (1984) first described mineralized rock at the West Duncan prospect, but they called it the "Castle River." The same location was called the "Halobia" in 1998 (Grybeck and Berg, 1998). Pacific Alaska Resources Co. has a large block of claims covering the West Duncan prospect. This company had a plan of operations filed with the Forest Service to drill up to 12 holes during 1998 and again in 1999. To the authors' knowledge, these plans were never carried out.

## **Mineral Assessment**

The West Duncan prospect is hosted in Mesozoic phyllite and slate (Brew, 1997). The rocks at this site are almost certainly Triassic Hyd Group strata (Grybeck and Berg, 1998).

USGS investigators describe upper Triassic phyllite hosting zones 9 to 12 feet wide by 90 to 120 feet long containing lenses of massive sulfides up to 0.75 feet wide and 3 feet long. Grab samples from these sulfide lenses contained up to 100 ppm copper, 100 ppm silver, and 1,000 ppm arsenic (Grybeck and others, 1984; Grybeck and Berg, 1998).

The BLM's examination of the West Duncan prospect revealed bands of disseminated to massive sulfides up to 1.5 feet thick hosted in carbonaceous and silicified phyllite. These bands strike about east-west; dip 50° to the south; conform to foliation in the phyllite; and contain pyrite, sphalerite, and galena. They are exposed across the creek bed for distances of up to 40 feet. Cover obscures the bands on either side of the creek. Samples across the bands contained up to 30.8 ppm silver, 5,400 ppm lead, and 5.4 percent zinc (Map no. 27, samples 2622, 9645).

## Conclusions

The West Duncan prospect is likely Triassic in age and is characteristic of volcanogenic massive sulfide deposits in the Duncan Canal area. These factors make the area an attractive exploration target.

# **KUPREANOF PYRITE**

(Plate 1, Map no. 28)

## Location/Access

The Kupreanof Pyrite prospect is located in the intertidal zone on the west side of Duncan Canal, about 1.3 miles north of Castle River. It is about 16 miles southwest of Petersburg. The intertidal area is covered with beach grass and kelp. Farther inland, brush, timber, and second-growth timber cover the gently to moderately sloping topography. Access is possible by boat, float plane, or helicopter; however, over a mile of tidal mud flats can cause problems for access by boat and float plane.

#### History

In 1921 Buddington (1923) noted a 4-foot-thick by 50-foot-long pyrite zone exposed near the high-tide line at the Kupreanof Pyrite prospect. Grybeck and others (1984) describe a similar zone.

Pacific Alaska Resources Co. has a large block of claims covering the Kupreanof Pyrite area, and the company had a plan of operations filed with the Forest Service in which it proposed to drill up to 12 holes during 1998. A representative of Pacific Alaska Resources Co. indicated that mapping, soil sampling, geophysics, and trenching were done at a location about 1 mile west of the Kupreanof Pyrite prospect. Soil sampling revealed significant anomalies, and trenching ' revealed a large gossan (Barry Hoffman, oral commun., 1999).

#### **Mineral Assessment**

The Kupreanof Pyrite prospect is hosted in Mesozoic phyllite and slate (Brew, 1997j). The rocks at this site are almost certainly Triassic Hyd Group strata (Grybeck and Berg, 1998).

Grybeck and others (1984) describe a 1-mile-long zone of felsic metatuff that locally contains massive layers of pyrite at this location. Grab samples from massive sulfide zones up to several meters thick contained up to10 ppm silver, 700 ppm lead, and 350 ppm zinc (Grybeck and others, 1984).

The BLM's examination of the Kupreanof Pyrite prospect revealed two lenses of pyrite about 6 feet thick that are exposed through kelp and sea grass near the high-tide line. Both lenses are conformably hosted in silicified phyllite and schist, the foliation of which strikes 035° and dips 42° to 65° to the southeast. The lenses are separated by about 300 feet and align approximately along strike. A zone of disseminated pyrite extends between the lenses. Small amounts of sphalerite are found with the pyrite. Two 6-foot chip samples across the widest parts of the sulfide lenses contained up to 31.8 ppm silver, 1,304 ppm lead, 1.7 percent zinc, and 1,268 ppm arsenic (Map no. 28, samples 278, 9646).

# Conclusions

The Kupreanof Pyrite occurrence is likely Triassic in age and is characteristic of volcanogenic massive sulfide deposits in the Duncan Canal area. These factors make the area an attractive exploration target.

# **CASTLE ISLAND MINE**

(Plate 1, Map nos. 29.1-29.3)

## Location/Access

The Castle Island Mine is located on a small island in Duncan Canal, 0.1 mile south of Big Castle Island and 14 miles southwest of Petersburg. The island is covered by a patented mining claim. The topography of the island is one of moderate relief, and the landscape is covered with thick brush. Access to the prospect is by boat, float plane, or helicopter.

#### History

The USGS noted the presence of barite on the Castle Islands in 1913 (Burchard, 1914). Recognizing the potential importance of associated base metals and gold, the Alaska Treadwell Gold Mining Co. staked the deposit in 1913. The claim was patented in 1929 (MS1452) as the Red Cliff Lode and subsequently sold to the Alaska Juneau Mining Co., which drilled the deposit for its barite and gold content in 1931. The gold and silver assays were low (Carnes, 1980; Williams and Decker, 1932).

In 1966 the Alaska Barite Co. acquired claims at Castle Island and started mining an outcrop on the northeast end of the island. Between 1966 and 1969, the company mined 234,000 tons of barite from above the high-tide line (Carnes, 1980). In 1969 Inlet Oil Corporation acquired the claims and proceeded to mine barite below tidewater. But in 1975 the company declared bankruptcy, and the mine was purchased by Chromalloy American. From 1970 to 1980, the companies mined 552,888 tons of barite from an underwater, openpit operation. Drilling and blasting liberated the ore, which was recovered by a clam shell crane (Carnes, 1980). In 1980, with economic reserves exhausted, the mine closed, and by the next year, the mill and most of the camp were removed (Carnes, R.D., oral commun., 1995). By 1996 all mining equipment and signs of habitation had been removed from the island. The site is now overgrown with alder and brush.

## **Mineral Assessment**

The Castle Island Mine is located in Upper Triassic Hyd Group rocks that are in contact with Devonian limestone and Quaternary basalt (Karl and others, 1999). Berg and Grybeck (1980) describe the deposit as a dismembered volcanogenic massive sulfide deposit.

The Castle Island barite lens occupies a small syncline and has a strike of 330° and a dip of 60° to the northeast. Its hanging wall consists of limestone and gray schist. The limestone is mostly massive, with abundant veinlets of white calcite. The gray schist is finely foliated with scattered veinlets of white calcite and abundant lenses of black chert. In places there is an abundance of conformable, fine-grained sulfides in thin layers. The footwall consists of graphite-carbonate schist that contains abundant lenses of white calcite and quartz and conformable, thin sulfide layers. The sulfides are pyrite, sphalerite, galena, chalcopyrite, and tetrahedrite. The barite is intercalated with the host rocks along both the hanging wall and footwall (Wiese, 1977; Carnes, 1980; Williams and Decker, 1932; Burchard, 1914; Kazda, 1972; Berg and Grybeck, 1980).

R.D. Carnes (oral commun.,1999) estimates that the interbedded barite and schist constitute several million tons of mineralized, low-grade rock.

Most of the Castle Island barite lens has been mined. It was 300 feet long and 200 feet wide and extended from 35 feet above sea level to 130 feet below. The barite ore was massive, gray to white and 90 percent pure. It contained 5 percent silica and about 2 to 4 percent sulfides consisting of pyrite, pyrrhotite, sphalerite, galena, bornite, chalcopyrite, and tetrahedrite. Small amounts of magnetite, ilmenite, pyrolusite, and quartz were also present (Carnes, 1980; Williams and Decker, 1932; Burchard, 1914). Prior to mining, an analysis of the barite ore included 0.006 oz/ton gold, 1.2 oz/ton silver, 0.05 percent copper, 0.60 percent lead, and 1.80 percent zinc (Williams and Decker, 1932). A more recent analysis returned 0.01 ppm gold, 1.05 ppm silver, 0.04 percent copper, and 1.38 percent zinc (Carnes, 1980).

By 1980 the deposit had been mined to a depth of about 90 feet below sea level. Carnes (oral commun., 1999) estimates that several irregularly shaped barite lenses at a depth of 60 feet below sea level are located to the north of the main ore body and that detrital barite material is lying offshore of the main lodes. In 1977 he inferred 390,000 tons of low-grade barite resources at a grade of 85 percent  $BaSO_4$  and 315,000 tons of higher-grade barite resources (Carnes, 1980). Holdsworth (1980) at the request of Chromalloy American, estimated 69,600 tons of ore-grade material in 1980. (From 1977 to 1980, 35,000 tons of barite were mined from the Castle Island Mine.)

The BLM's examination consisted of sampling waste dumps on the small island where the mill was located. The dumps consist of barite with disseminated sulfides, barite with bands of sulfides, and grey schist with bands of barite and sulfides. Samples from these rocks contained up to 347 ppb gold, 42.8 ppm silver, 518 ppm copper, 7,783 ppm lead, and 2.3 percent zinc, and greater than 2 percent barium (Map no. 29.1, samples 42-43, 46).

## Conclusions

The Castle Island Mine was exhausted of economic reserves in 1980; although according to Carnes (1980) and Holdsworth (1980), some underwater barite resources remain.

# EAST DUNCAN PYRITE

(Plate 1, Map no. 30)

# Location/Access

The East Duncan Pyrite occurrence is exposed along a logging road on the east side of Duncan Canal, opposite Big Castle Island. The logging road is part of the Lindenberg Peninsula road network, which is accessed from a pier at a site called "Tonka," on the west side of Wrangell Narrows. The occurrence is located 12 miles southwest of Petersburg. The area has moderately steep topography and is covered for the most part by conifer forest, except in places where clear-cutting has occurred. The site can also be reached by helicopter or by taking a boat to Duncan Canal and then continuing on foot.

#### History

The location of a pyrite occurrence on the east side of Duncan Canal was mentioned to the BLM by USGS investigators. A petrographic report in the BLM files (Bureau Of Land Management, MAS) also contains a mention of pyrite-bearing rock exposed along a logging road on the east side of Duncan Canal. No other reference is known to exist in published literature.

#### **Mineral Assessment**

The East Duncan Pyrite occurrence is situated near the boundary between the Alexander terrane to the west and the Gravina Belt overlap sequence to the east (Silberling and others, 1994). Recent follow-up of airborne geophysical data (ADGGS, 1997a-m) from the Duncan Canal area by the USGS is likely to move the Alexander-Gravina contact farther to the east than previously thought (S.M. Karl, oral commun., 1998). Therefore, the East Duncan Pyrite prospect would lie in Alexander terrane rocks, within Brew and others' (1984) "Duncan Canal/Zarembo Island/Screen Island" sub-belt that hosts volcanogenic massive sulfide deposits in the area. The unit hosting the pyrite has been mapped as undifferentiated Mesozoic phyllite and slate (Brew and others, 1984; Brew, 1997).

Medium to dark gray slate hosts the pyrite at the East Duncan Pyrite occurrence. The pyrite is medium- to fine-grained and occurs in layers, knots, and lenses that are generally parallel to foliation in the hosting slate. No sulfides other than pyrite were noted. The pyrite-rich zone is about 3 feet thick and exposed for about 10 feet along strike, beyond which it is covered by dirt and vegetation. Foliation in the slate strikes north to northwest and dips moderately to the northeast. There is a sharp contact between the footwall slate and the pyrite-rich zone; foliation in the slate across this contact varies noticeably, indicating a possible fault. Above the footwall, the slate is more silicified, particularly where the pyrite is concentrated. The contact between the pyrite-rich zone and the hanging wall slate is gradational.

BLM personnel collected three measured samples from the East Duncan Pyrite occurrence. They contained low precious- and base-metal values. The highest gold value was 9 ppb, highest silver was 2 ppm, highest copper was 98 ppm, and highest zinc was 244 ppm. Each of the samples

contained about half a percent barium and had elevated values of nickel (204 to 332 ppm) and chromium (113 to 122 ppm [Map no. 30, samples 2862, 3817-18]).

# Conclusions

The mineralized rock at the East Duncan Pyrite prospect is limited in extent and has low metal concentrations. It is interesting, however, because it may be related to other VMS occurrences in the area. This would be the first indication of VMS-type mineralization on the east side of Duncan Canal. Alternatively, the possibility that a fault forms the footwall and that the pyrite is concentrated where silicification is most pronounced means that the mineralization may be secondary and not related to other VMS deposits in the area. Additional examination of the east side of Duncan Canal should be undertaken, while keeping in mind the potential for VMS mineralization.

# **SPRUCE CREEK**

(Plate 1, Map nos. 31.1-31.3)

# Location/Access

The Spruce Creek prospect is located on Lindenberg Peninsula near Forest Service road 6352, 10 miles south-southwest of Petersburg. The topography of the area ranges from gently sloping to moderately steep with elevations ranging from 400 to 1,000 feet. Vegetation consists of muskegs, dense brush, thick timber, and clear-cuts. Access to the prospect is by helicopter or by vehicle. (It is a 6-mile drive from the Tonka pier on the west side of Wrangell Narrows, which is about 6 miles south of Petersburg.)

## History

Paul Pieper of Petersburg discovered and staked the Spruce Creek prospect in 1983. In 1992 Westmin Resources Limited (Westmin) optioned the property and performed geophysical surveys along with mapping and sampling. Westmin dropped the property in 1993. Results of their work have not been made public. Paul Pieper drilled several shallow, small-diameter holes on the property (oral commun., 1998). He currently holds 10 claims covering the prospect.

# **Mineral Assessment**

The Spruce Creek prospect is hosted in Upper Cretaceous phyllite according to Brew (1997). Revised mapping in 1998 indicates the country rock in the area consists of Permian and Mississippian rocks of the Cannery Formation in fault contact with Triassic Hyd Group volcanic and sedimentary rocks (Karl and others, 1999). The rocks trend west to northwest and dip steeply to the east.

The BLM's examination revealed three areas of sulfide mineralization: one on the west side of Forest Service road 6352 near a borrow pit (elevation 580 feet [Map no. 31.1]), another 2,500 feet east-southeast of the borrow pit below a waterfall (elevation 480 feet [Map no. 31.2]), and the third 7,500 feet southeast of the borrow pit in a clear-cut (Map no. 31.3).

The mineralized rock near the borrow pit consists of a 0.3-foot-thick quartz vein with sericite and chlorite conformably hosted in greenstone schist. The vein is exposed for several feet in a road cut but beyond that is covered. It strikes to the northwest and dips steeply to the northeast. Pyrite, galena, and sphalerite are found in the quartz and along partings in the schist. A sample across the vein contained 213 ppb gold, 1,690 ppm lead, and 4,163 ppm zinc (Map no. 31.1, sample 351). A 19-foot diamond drill hole was collared at this location in 1996 (Paul Pieper, oral commun., 1998).

The mineralized rock near the waterfall is exposed on a steep face on the north side of the small creek that forms the waterfall. It consists of gray bands of fine sulfides hosted in limestone with bedding that trends northwest and dips steeply to the northeast. A 1.4-foot sample across the sulfide bands contained 416 ppb gold, 14.9 ppm silver, 820 ppm lead, and 5,221 ppm zinc (Map

no. 31.2, sample 407). Thirteen additional samples in this area contained no significant metal values (Map no. 31.2, samples 408-412, 2823-30).

The mineralized rock in the clear-cut consists of a 4-foot-thick bed of marble hosted in greenstone that has been exposed by a cut. The marble strikes 300° and dips 55° to the north. A 0.4-foot band of the marble contains sphalerite and galena. A sample across this band contained 779 ppb gold, 59.1 ppm silver, 5.62 percent lead, and 2.1 percent zinc (Map no. 31.3, sample 421).

#### Conclusions

The three mineralized areas exposed on the Spruce Creek prospect are too small to attract development. Mapping in 1998 indicates that at least parts of the prospect are in Triassic rock (Karl and others, 1999), which hosts prospective deposits elsewhere in the Duncan Canal area. There is little rock exposed at the prospect, so much of it remains unexplored. Soil sampling and follow-up geophysics may point to more significant mineralized zones.

# NICIRQUE

(Plate 1, Map no. 32)

# Location/Access

The Nicirque prospect is located at an elevation of 2,300 feet, about 3 miles north-northeast of Pearl Island on the south side of Lindenberg Peninsula. It is about 11 miles south-southwest of Petersburg. The topographic relief in the area is moderate and covered with muskegs, dense brush, thick timber, and clear-cut areas. Access to the prospect is easiest by helicopter. Alternate access is by a combination of boat, vehicle, and foot (requiring a 6-mile drive from the Tonka pier, which is 6 miles south of Petersburg on Wrangell Narrows, and then a hike to the prospect).

#### History

Paul Pieper of Petersburg discovered, named, and staked this prospect in 1983 (oral commun., 1998). There is no known mention of it in published literature.

#### **Mineral Assessment**

The Nicirque prospect is hosted in Permian and Mississippian rocks of the Cannery Formation that are in fault contact with Triassic Hyd Group volcanic and sedimentary rocks (Karl and others, 1999). The owner reports a Triassic fossil location on this prospect (Paul Pieper, oral commun., 1998), so the mapped boundary between the Cannery and Hyd Group rocks may be subject to change.

The mineralized rock at the prospect is reportedly a massive pyrite vein in a breccia zone (Paul Pieper, written commun., 1998). The BLM's investigation was confined to collecting a 3.5-foot, representative chip sample of slate with pyrite bands near the reported location of the fossils. The sample contained 56 ppb gold, 2.6 ppm silver, and 333 ppm zinc (Map no. 32, sample 465).

#### Conclusions

The reported massive sulfide location (Paul Pieper, oral commun., 1998) on this prospect is worthy of examination.

# **SOUTHWEST DUNCAN**

(Plate 1, Map no. 33)

# Location/Access

The Southwest Duncan prospect is located at a borrow pit near sea level on the west side of Duncan Canal, south of Little Duncan Bay. It is about 18 miles south-southwest of Petersburg. Thick brush predominates in the area. Access to the prospect is by boat or helicopter.

#### History

Field maps generated during Amoco Minerals Co.'s 1978 to1979 investigation of the Duncan Canal area indicate copper in a borrow pit at the Southwest Duncan prospect (Zelinski, 1979?). There is no mention of this site in published literature.

#### **Mineral Assessment**

The prospect is hosted in Mesozoic greenstone and greenschist (Brew, 1997). Karl and others (1999) consider these rocks to be part of the Triassic Hyde Group.

The BLM's examination of the borrow pit and the shoreline in the Southwest Duncan area revealed greenstone containing small amounts of disseminated pyrite and chalcopyrite. Grab samples of rubblecrop from the more mineralized areas contained from 15 to 821 ppb gold, 954 to 1,189 ppm copper, and 21 to 1,906 ppm arsenic (Map no. 33, samples 188-189, 9634-35).

#### Conclusions

The Southwest Duncan prospect is hosted by Triassic Hyd Group rocks that elsewhere in the Duncan Canal area host prospective VMS deposits. The combination of gold, copper, and arsenic in the greenstone along with the Triassic age makes the property interesting for exploration.

# (Plate 1, Map no. 34)

# Location/Access

The TB prospect is located 3 miles northwest of Totem Bay on the south side of Kupreanof Island. It is about 30 miles southwest of Petersburg. Timber, muskeg, and thick brush predominate in the area. Access to the prospect is by helicopter.

#### History

A large block of claims was staked in the area in 1973 (Alaska Kardex, 1982), presumably by Resource Associates of Alaska (Bureau of Land Management, MAS). The USGS reports vivid exposures of orange-yellow, altered rhyolite in the area, which is indicative of a large, felsic, hydrothermal system (Grybeck and Berg, 1998).

#### **Mineral Assessment**

The TB prospect is hosted in a thick sequence of Quaternary-Tertiary rhyolite (Brew, 1997). The USGS reports locally disseminated pyrite, but no evidence of other ore minerals (Grybeck and Berg, 1998).

The BLM's examination was confined to a few hours of walking along a creek bed examining rusty, red-yellow rhyolite that extends for many miles in the area. In places, the rhyolite contains numerous quartz vugs, chalcedony, and green and red jasper. A grab sample of silicified, brecciated, pyrite-bearing rhyolite contained 425 ppm zinc (Map no. 34, sample 2626).

#### Conclusion

There is insufficient information about the TB prospect to reach a definitive conclusion about its mineral potential. Although no evidence of ore minerals has been found yet, the extent of the altered zone encourages further examination of the area.

# MONONGEHELA

(Plate 1, Map no. 35)

# Location/Access

The Monongehela claims are located on the west side of Little Totem Bay on the south side of Kupreanof Island. They are about 31 miles southwest of Petersburg. Thick brush and heavy timber predominate in the area. Access to the prospect is by boat.

#### History

The Totem Bay area was examined in 1952 by Houston and others (1958) to determine if radioactive veins similar to those found on northern Prince of Wales Island extend farther north onto Kupreanof Island; no such veins were found. Nonetheless, nine claims were later staked in the Little Totem Bay area in 1955 that reportedly covered a radioactive mineral potential (Alaska Kardex, 1982), but no subsequent activity has been reported.

#### **Mineral Assessment**

The Monongehela prospect is hosted in Quaternary-Tertiary rhyolite (Brew, 1997g). These volcanic rocks are part of a large package of Quaternary and Tertiary, predominantly extrusive, igneous rocks that cover the southwest part of Kupreanof Island (Brew and others, 1984).

Houston (1958) mentions finding 0.003 percent equivalent uranium in andesite on the west shore of Little Totem Bay in 1952. BLM scintillometer surveys of the same area revealed a 3-foot by 3-foot zone of rhyolite at the tide line that is about 60 percent above background radiation. A sample across this zone contained 7 ppm uranium, 17 ppm thorium, 43 ppm neodymium, 38 ppm lanthanum, and 110 ppm cerium (Map no. 35, sample 181).

# Conclusions

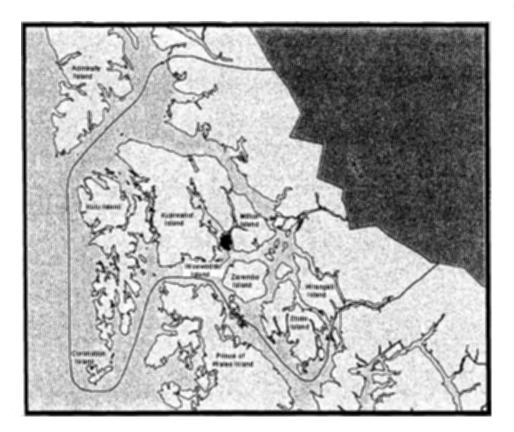
The low uranium/rare-earth values at Little Totem Bay discourage exploration for such deposits in the area.

# WOEWODSKI ISLAND

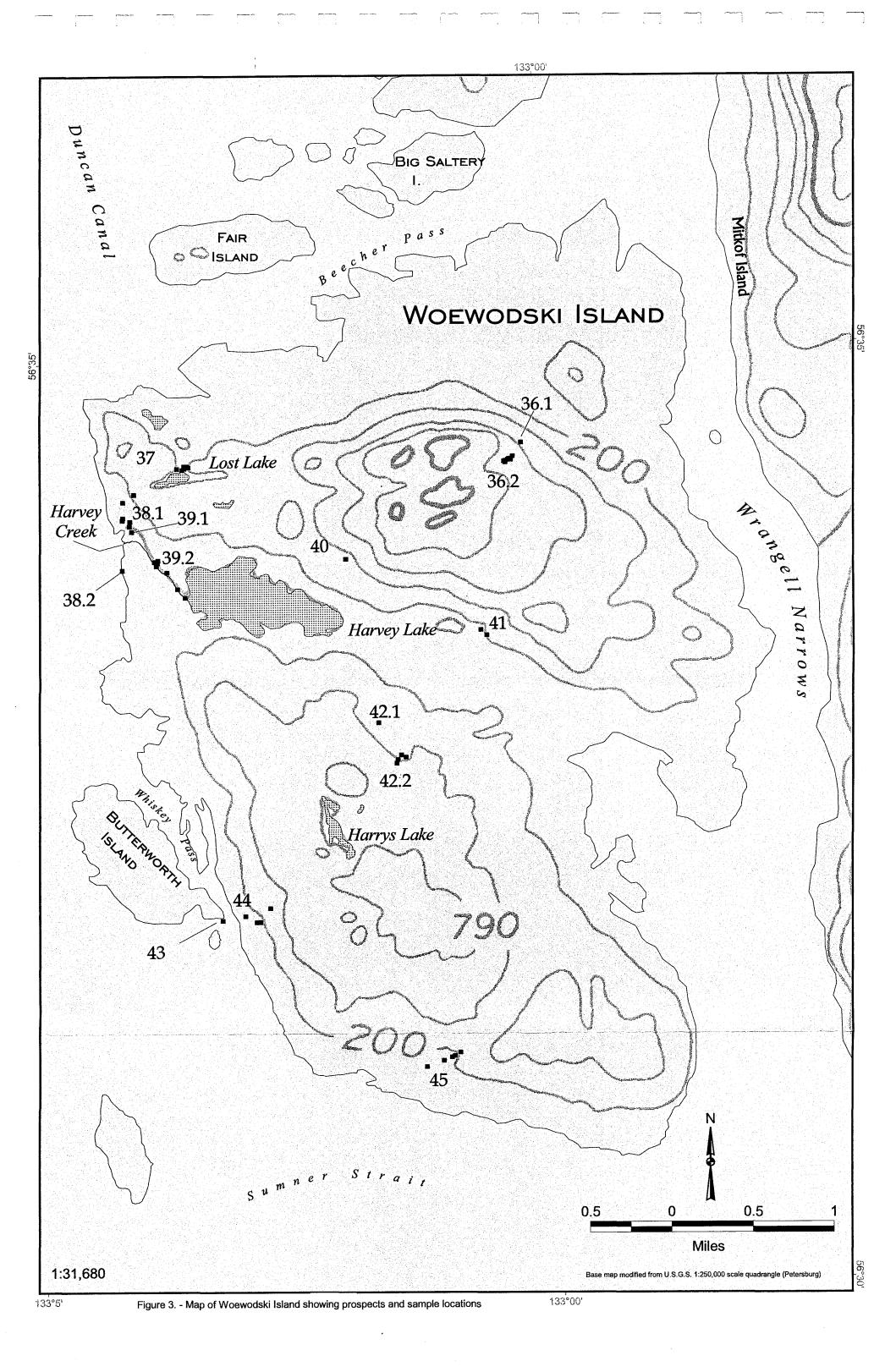
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Property name ..... Figure 3, Map no.

Scott
Lost Show
Helen S Mine
Harvey Creek
Maid of Mexico Mine 40
East of Harvey Lake
Mad Dog 2
Fortune
Hattie
Brushy Creek



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# SCOTT

(Figure 3, Map nos. 36.1-36.2)

# Location/Access

The Scott prospect is located at an elevation of 700 feet in the north-central part of Woewodski Island. It is about 16 miles south of Petersburg in an area of the island that is moderately steep, with brush and timber cover. The prospect is located in a steep gulch on the east side of the highest point on Woewodski Island and can be accessed by helicopter using a muskeg to the northwest as a landing site.

#### History

The Scott prospect was staked during the 1970's and early 1980's, as was most of the northern part of Woewodski Island. Cominco, Colony Pacific, Amselco, Kennecott, Houston International Minerals, and Westmin Resources were all active in the area sometime between 1978 and 1998. During the late 1980's and early 1990's, soil sampling and diamond drilling (about 3 holes) were used to evaluate the Scott prospect (J. McLaughlin, C. Rockingham, oral commun., 1998). The claims are currently active.

#### Mineral Assessment

The Scott prospect is located in semischist and phyllite (Brew 1997j). According to Karl and others (1999), these are Triassic Hyd Group rocks. Maps by Houston International Minerals indicate that the area bedrock consists predominately of rhyodacite with some andesite and basalt (Houston International Minerals, 1980).

The BLM's investigation of the Scott prospect revealed a steep-walled gulch that contains massive bands/lenses and disseminations of sulfides. The gulch, formed by a shear zone that appears to conform to the grain of the country rock, trends 075°. The banding and schistosity trend in a similar direction and dip from 65° to 90° to the southeast. The BLM identified base-metal sulfides and barite at scattered locations from elevations of 710 to 755 feet over a strike distance of 300 feet. Examination of the gulch to the east (down the gulch) failed to reveal additional mineralized rock. Muskeg, heavy brush, and timber cover the mineralized rock to the west and provide few outcrops.

The most significant mineralized rock is confined to massive barite, pyrite, galena, and sphalerite bands from 0.1 to 2.0 feet thick. These sulfide bands are found at scattered locations in lengths up to 30 feet. They occur in about 60 linear feet of the 300 feet mapped. Twenty-two samples were collected from these bands. They contained up to 1,122 ppb gold, 47.3 ppm silver, 2.63 percent lead, and 40.9 percent zinc (Map no. 36.2, samples 329, 336, 9679). Sphalerite is the predominate sulfide. The highest zinc value, 40.9 percent, was confined to a 0.3-foot width in the hanging wall of a 1.0-foot-thick lens (Map no. 36.2, sample 329). A 0.7-foot-long sample at the same location contained only 14.2 percent zinc (Map no. 36.2, sample 326). Samples from the bands/lenses also contained up to 56.35 percent barium (Map no. 36.2, sample 331), greater than 2,000 ppm cadmium, and greater than 50 ppm mercury (Map no. 36.2, sample 329). Samples of

the schist hosting disseminated sulfides contained from 214 ppm to 1.5 percent zinc (Map no. 36.2, samples 327, 333, 338-339, 341, 343, 9672, 9680).

Reconnaissance investigations 1,000 feet north of the Scott prospect revealed rubblecrop of pale gray, silicified volcanics with sphalerite. A representative chip sample of the rubblecrop contained 1,449 ppb gold, 12.6 ppm silver, 2,559 ppm lead, 1.3 percent zinc, and 13.6 percent barium (Map no. 36.1, sample 9682).

# Conclusions

The apparent conformity of the bands and lenses of sulfides with the grain of the country rock is permissive of a volcanogenic origin for the Scott deposit. Later shearing resulted in the truncation of some mineralized bands. Although the bands are too scattered, narrow, and low-grade to be considered for development, sufficient mineralized rock is exposed to warrant further exploration in the vicinity.

# LOST SHOW

(Figure 3, Map no. 37)

# **Location Access**

The Lost Show prospect is located on the northwest side of Woewodski Island, about 16 miles south-southwest of Petersburg. The topography is gently sloping, with brush, timber, and muskeg covering the area. Access to the property can be gained by float plane or boat to the Helen S Mine (Map no. 38), and from there, a trail leads across private property to the northeast side of Lost Lake and the Lost Show prospect. Alternate access is by helicopter.

#### History

Most of the northwestern part of Woewodski Island was staked during the late 1970's and early 1980's. Cominco, Colony Pacific, Amselco, Kennecott, and Westmin Resources were all active in the area sometime between 1978 and 1998. A number of area prospects were examined through soil sampling, geophysical surveying, and diamond drilling (J. McLaughlin, oral commun., 1998).

The Lost Show prospect was discovered by Cominco geologists in 1985. Between 1986 and 1988, Amselco, in partnership with Cominco, drilled 16 shallow holes there. In 1993 Westmin entered into a partnership with Amselco and in 1996 carried out a program of mapping, soil sampling, IP geophysical surveying, and prospecting of both the Lost Show site and the area between it and the Scott prospect (Map no. 36). The IP survey failed to detect the Lost Show mineralization. In 1998 Westmin announced a "geological reserve" for the Lost Show prospect (Terry, 1998). Boliden Ltd. acquired the property in its take-over of Westmin and continues to maintain active claims at the site.

#### **Mineral Assessment**

The Lost Show prospect is located in the Upper Triassic Hyd Group (Karl and others, 1999) that consists of felsic and intermediate volcanic flows and breccia, limestone, and argillite (Brew, 1997j). Rocks exposed at the prospect consist of tan schists that have been identified by Westmin geologists as meta-andesite (Terry, 1998). Studies and analysis by Newberry and Brew (1997) indicate that the "andesite" is actually an altered, more mafic rock, likely a metabasalt.

Based on 16 shallow drill holes and surface outcrops, Westmin published a "geological reserve" (resource) for the Lost Show prospect of approximately 500,000 tons grading 8.1 percent zinc, 0.6 percent lead, and 2.5 oz/ton silver (Terry, 1998). Information on the drilling was not made available for this study.

The BLM's investigation revealed three mineralized outcrops or cuts, roughly aligned along a strike of 072°. The mineralized rock is approximately conformable to the grain of the host metabasalt and dips steeply. The first (No. 1) outcrop/cut is located at the edge of Lost Lake, the second (No. 2) is located 90 feet (at 072°) from the first, and the third (No. 3) is located 200 feet (at 072°) from the first. The area surrounding the outcrops/cuts is covered with muskeg, brush, and timber.

The No. 1 outcrop or cut exposes a 5-foot-thick, steeply dipping, massive sulfide band hosted in tan-weathering schist. The sulfides are pyrite, galena, and sphalerite. A 4.4-foot chip sample across part of the zone contained 153.8 ppm silver, 5,519 ppm lead, and 11.5 percent zinc (Map no. 37, sample 198). A 0.6-foot sample across the remainder of the zone gave similar results (Map no. 37, sample 197). At outcrop No. 2, two narrow sulfide bands dip 64° to the south and contain pyrite, galena, and sphalerite. They are hosted in the same tan-weathering schist as outcrop No. 1. A 7.5-foot sample across this outcrop assayed 83.9 ppm silver, 5,180 ppm lead, and 4.5 percent zinc (Map no. 37, sample 9639). The No. 3 outcrop or cut exposes brownweathering schist that hosts a steeply dipping, 1.1-foot-thick band of sulfides. This band assayed 282 ppm silver, 2.79 percent lead, and 24.2 percent zinc (Map no. 37, sample 9697). These sample results correlate well with Westmin's reserve (resource) grades of 2.5 oz/ton silver, 0.6 percent lead, and 8.1 percent zinc (Terry, 1998).

#### Conclusions

The Lost Show has sufficient indications of grade and extent to be a prospective target for exploration, both down dip and along strike. The general vicinity, particularly the area between the Lost Show and the Scott (Map no. 36), is also a prospective exploration area.

# **HELEN S MINE**

(Figure 3, Map nos. 38.1-38.2)

# Location/Access

The Helen S Mine is located on the northwest side of Woewodski Island, about 17 miles southsouthwest of Petersburg. The mine is located on patented mining claims (MS 614) that extend from tidewater to an elevation of 300 feet. The topography is gently sloping. Brush, old-growth, and second-growth timber cover the claims. Access to the property can be gained by boat, float plane, or helicopter. Trails lead from the beach to the mine workings. A private cabin is located on the beach in the southwest corner of the claims.

#### History

The Helen S claim group was first staked in 1902 by the Olympic Mining Co (Wright and Wright, 1908). These claims, staked on gold-bearing quartz veins 5 to 15 feet thick, were surveyed for patent in 1904 (Wright and Wright, 1905). By 1907 improvements to the claims included a twenty-stamp mill, a 100-foot shaft, another shaft located 400 feet to the north, 650 feet of drifts and crosscuts, and several opencuts. A small test run had also been processed in the mill, and the gold values were reported as principally confined in the concentrate (Wright and Wright, 1908). Shortly after 1915, the surface improvements were dismantled, and the property abandoned (Berg and Cobb, 1967). In 1945 J.C. Roehm examined the property for the Alaska Territorial Department of Mines. He reported vegetation covering most of the mineralized areas. He also reported the ore that was milled averaged \$3.66 per ton (gold at \$35/oz). A sample collected from pyritized schist assayed 0.06 oz/ton gold and 0.2 oz/ton silver (Roehm, 1945).

#### **Mineral Assessment**

The Helen S Mine is located in the Upper Triassic Hyd Group (Karl and others, 1999) and consists of felsic and intermediate volcanic flows and breccias, limestone, and argillite. On the northwestern part of the property, hornblende diorite intrudes the volcanic flows (Brew, 1997j).

The gold-bearing veins at the Helen S Mine are hosted in greenstone schist. The schistosity of the metavolcanic rocks strikes north-south and dips 70° to the east. The quartz veins strike northeast, dip vertically, and contain galena, pyrite, and sphalerite (Wright and Wright, 1905). A disseminated lode about 40 feet wide and at least 1,000 feet long (Berg and Cobb, 1967) strikes north-south and dips 50° to the east. This is described as the principal deposit. It consists of a belt of schist that is mineralized with quartz-calcite stringers and small masses and disseminations of pyrite, galena, and sphalerite. A shaft was reportedly sunk on this zone (Wright and Wright, 1908; Berg and Cobb, 1967). Historic references regarding the development and production from the Helen S Mine are confused with the nearby Maid of Mexico Mine (Figure 3, Map no. 40) and Hattie prospect (Figure 3, Map no. 44) and are not completely clear.

A lineament occupied by a creek extends north-south across the Helen S Mine patented claims. Some parts of the lineament may be man-made as the result of excavation. The location of each working is described according to its position along this south-flowing creek, i.e., the distance from the mouth of the creek at the beach to each location.

The BLM's examination of the Helen S Mine was confined to exposures in trenches, pits, and the tops of caved or flooded shafts. The examinations revealed mill ruins 150 feet from the beach, and two shafts located 400 feet (the southern shaft) and 640 feet (the northern shaft) up the creek. There are tailings in the intertidal zone, and a 120- by 150-foot dump is located north of the mill. The southern shaft is caved about 10 feet from the collar and does not expose bedrock. The northern shaft is flooded, with the water level about 10 feet below the collar. Pits and trenches are located at distances of 150, 470, 750, and 1,100 feet up the creek.

BLM personnel collected 28 samples from the workings at the Helen S Mine. Twenty-five of these contained below 152 ppb gold. Three contained from 4,248 ppb to 0.328 oz/ton (11,246 ppb) gold (Map no. 38.1, samples 30, 36, 213). The lowest-grade of the three, which contained 4,248 ppb gold, was a grab sample of slightly iron-stained, silicified schist collected from the trench located 1,100 feet up the creek (Map. no. 38.1, sample 36). Another sample from the same location contained only 11 ppb gold (Map. no.38.1, sample 381). At the shaft 640 feet up the creek, a 1.5-foot-thick quartz vein contained 0.328 oz/ton gold (Map no. 38.1, sample 30). The 1.5-foot vein is exposed in the east and west walls of the shaft, but is covered along strike. A grab sample of quartz from the shaft's dump assayed 4,536 ppb gold (Map no. 38.1, sample 213). Additional elements found in the three highest-grade gold samples include silver up to 22.7 ppm, copper up to 570 ppm, lead up to 795 ppm, zinc up to 1,042 ppm, and arsenic up to 1,471 ppm. Mill tailings samples did not contain detectable gold, but did contain up to 16.5 ppm silver, 1,888 ppm lead, 1.4 percent zinc, and 371 ppm arsenic (Map no. 38.1, samples 40-41).

A sample collected from a 0.1-foot-thick quartz vein, located about 1,000 feet south of the Helen S Mine, contained 3,878 ppb gold and 3,494 ppm arsenic (Map no. 38.2, sample 281). This vein is located on the beach and can only be traced for a few feet.

The highest silver, lead, and zinc values were found in the pit located 470 feet up the creek and in a trench and adjacent cut located 750 feet up the creek. The lower pit exposes a massive sulfide lens hosted in greenstone/greenstone schist in its south wall. The lens, or zone, strikes about 340° and dips 30° to the southeast. It is exposed for about 10 feet and grades from massive sulfides to silicified schist with about 10 percent sulfides. The sulfides consist of pyrite, galena, and sphalerite. A 1.6-foot sample across the massive sulfide zone contained 65 ppm silver, 9,560 ppm lead, and 2,540 ppm zinc (Map no. 38.1, sample 382). A sample across a 0.7-foot-thick part of the lens contained 3,078 ppm lead and 3.0 percent zinc (Map no. 38.1, sample 383). Select samples from the dump and of flyrock in the vicinity contained from 38.9 to 113.5 ppm silver, from 7,539 ppm to 2.5 percent lead, and from 4.0 to 5.4 percent zinc (Map no. 38.1, samples 32, 215, 9642).

The trench and cut located 750 feet up the creek exposes silicified zones containing pyrite, galena, and sphalerite hosted in brecciated schist and slate. The silicified zones trend 004°, 64° east and

015°, 54° east. A sample 0.9 feet long taken across one zone contained 1.78 oz/ton silver, 1.09 percent lead, and 12.8 percent zinc (Map no. 38.1, sample 9565). Dump and rubblecrop samples collected in the vicinity contained up to 2.13 oz/ton silver, 1.74 percent lead, and 8.5 percent zinc (samples 38-39, 2359, 9700).

The BLM's sampling indicates that gold is not associated with the base-metal, massive sulfide zones exposed at the Helen S Mine. Gold is confined to narrow quartz veins. Arsenic is more directly associated with the gold-bearing veins than the base-metal sulfide zones.

# Conclusions

Surface sampling is insufficient to evaluate reports of gold and base-metal mineralized rock at the Helen S Mine. Early reports were apparently based on owner reports and underground exposure of the mineralized rock. The BLM's surface examination failed to identify the 40-foot-wide by 1,000-foot-long zone of base-metal or gold mineralization referred to by Berg and Cobb (1967).

# HARVEY CREEK

(Figure 3, Map no. 39.1-39.2)

# Location/Access

The Harvey Creek prospect is located on the northwest side of Woewodski Island, 19 miles south-southwest of Petersburg. It is situated along the 0.5-mile-long creek that drains Harvey Lake to the west. Although the banks of the creek are steep in places, the area topography is gently sloping, with thick brush and timber cover. A Forest Service trail crosses the Harvey Creek prospect. The trail leads from Duncan Canal along the north bank of the creek to a Forest Service cabin on the west side of Harvey Lake. Access is via float plane or boat.

# History

There is no reference to the Harvey Creek prospect in published literature, but some development work was accomplished at the site in the past. Just below the trail, 0.35 miles from Duncan Canal, the portal of an old caved adit is located on the north side of the creek.

During 1997 a Petersburg resident drilled two core holes to evaluate the mineralized rock at the prospect. One hole is located east of the caved adit at an elevation of 140 feet and is 189 feet deep. The other is located on a bank overlooking the creek west of the adit at an elevation of 60 feet and is 94 feet deep. Both holes were drilled vertically (P. Beardslee, oral commun., 1997). Active claims cover the Harvey Creek prospect and are held by the Petersburg resident who accomplished the core drilling.

#### **Mineral Assessment**

Rocks in the Harvey Creek prospect area are mapped as Upper Triassic (Karl and others, 1999) felsic and intermediate volcanics of the Hyd Group (Brew, 1997j). Outcrops along the creek include phyllite that is locally silicified and pyritized. The phyllite strikes 315° to 010° with a shallow dip. Both core holes drilled at Harvey Creek contained gray phyllite and greenschist with up to 5 percent pyrite. No base-metal sulfides were observed in the core of either hole.

Samples of quartz below the adit and of silicified, iron-stained phyllite from along and to the north of the creek contained up to 340 ppm copper and 365 ppm zinc (Map no. 39.2, samples 9591, 9643). A soil sample collected at the western end of the Harvey Lake trail contained 1,208 ppb gold (Map no. 39.1, sample 9569).

#### Conclusions

Sampling and shallow drilling failed to reveal significant mineralized rock at the Harvey Creek prospect.

# MAID OF MEXICO MINE

(Figure 3, Map no. 40)

# **Location Access**

The Maid of Mexico Mine is in the north-central part of Woewodski Island, about 17 miles south of Petersburg. It is located 1½ miles east of the Helen S Mine (Map no. 38), on the northeast side of Harvey Lake, at an elevation of 340 feet. The area topography is gently sloping to moderately steep, with brush and timber covering the property. Access to the mine can be gained by float plane to Harvey Lake and then by a short trail from the northeast side of the lake. Alternatively, a trail leads to the mine from tidewater on the Helen S property.

#### History

The Maid of Mexico Mine was first staked in 1906 on a gold-bearing quartz vein (Nelson, 1931). By 1908 a 40-foot adit had been driven (Wright, 1909). By 1916 workings consisted of a 130foot crosscut, 170 feet of drift, a short adit, and pits and trenches. A test shipment was made by 1916 (Chapin, 1918). Buddington (1923) reports that the vein averaged 4½ feet thick at \$20 per ton (1 oz/ton) and had been traced for 2,000 feet.

A report by Nelson (1931) indicates that the Maid of Mexico vein could be traced for 750 feet on the surface. He reported a small stope had been started on the vein, and a 10-stamp Straube Mill was being installed. A partly legible assay plan is attached to the Nelson report. Seven samples, collected from the drift or raise with vein widths varying from 6 to 15 inches, range in value from \$2.64/ton to \$98.81/ton and average \$40.62/ton (gold at \$20.67/oz). Eight samples were collected down the shaft with widths ranging from 6 to 20 inches. Although values are not all readable on the Nelson map, six are below \$1.00/ton and two are above, at \$9.30 and \$23.98/ton (Nelson, 1931). By 1939 over 1,000 feet of underground workings are reported (Smith, 1941).

In 1953 mining engineer James A. Williams examined the property for the Alaska Territorial Department of Mines (Williams, 1954). He reported a 130-foot crosscut and 260 feet of drift along the vein, with a flooded winze and a raise to the surface. He collected eight samples at five locations along the vein. Williams' sample results are markedly lower than those reported by Nelson in 1931. Adjacent to a sample reported by the prospect owner to assay \$98/ton (2.8 oz/ton at \$35/oz gold), Williams obtained 0.06 oz/ton. At another location, Williams' samples across the vein averaged less than 0.02 oz/ton across 44.5 inches. Samples across stringers from 2 to 3 inches thick contained from 0.47 to 0.64 oz/ton. Williams attributes the disparity in sample values to spotty gold occurrence in the vein (Williams, 1954).

No activity was reported on the property from 1953 to 1998. The Maid of Mexico Mine claims, are currently held by a Petersburg resident.

### **Mineral Assessment**

The Maid of Mexico Mine is located near the contact between units mapped as Mesozoic semischist and phyllite, Mesozoic phyllite and slate, and Triassic felsic and intermediate volcanics

(Brew, 1997j). At the mine scale, the vein is located near the contact between slate and siliceous dolomite (Berg and Cobb, 1967), with slate in the hanging wall and dolomite in the footwall (Nelson, 1931). An underground map shows the vein striking east to northeast and dipping 65° to the south (Williams, 1954). Williams (1954) reports that the 2- to 7-foot-thick quartz vein contains small amounts of pyrite, galena, sphalerite, and free gold.

The BLM's investigation revealed the remains of a sheet metal and wood cabin, a wood cabin with a tarp top, and the remains of a Straube mill. Investigators located and examined three adits: the No.1, or main adit, is caved at the portal (elevation 340 feet), the No. 2 is 30 feet long (elevation 385 feet), and the No. 3 is 45 feet long (elevation 404 feet). A shaft (elevation 453 feet) that connects to the No.1 adit is caved near its collar. Several trenches or cuts expose the vein on the surface above the adits.

The three adits are collared in slate near a northeast-trending contact between carbonate and slate. The Nos. 2 and 3 adits expose slate, dolomite, and narrow, discontinuous quartz stringer zones. Samples collected from the Nos. 2 and 3 adits contained from 11 to 1,462 ppb gold (Map no. 40, samples 2381-85, 2620).

Surface cuts and trenches expose a quartz vein up to 1.8 feet thick above the Nos. 2 and 3 adits for a distance of about 160 feet. This vein strikes east to northeast and dips 73° to 80° to the south. Personnel collected two samples from the vein and a third from quartz rubble. They contained from less than 5 ppb to 546 ppb gold (Map no. 40, samples 2386-87, 9575).

The old Straube mill, located below the No. 1 adit, contained remnant mill feed and concentrate. A sample of the feed contained 2,098 ppb gold, 1,358 ppm lead, 693 ppm zinc, and 425 ppm arsenic (Map no. 40, sample 2388). Samples of the sulfide-rich concentrate contained up to 1.076 oz/ton gold, 3.17 oz/ton silver, 1,224 ppm copper, 2.05 percent lead, 746 ppm zinc, and 4,297 ppm arsenic (Map no. 40, samples 2389-90).

#### Conclusions

The gold values in samples collected by the BLM and by mining engineer James A. Williams (1954) are markedly lower than those reported on the assay map attached to Nelson's (1931) report or the average mined grade of 1 oz/ton reported by Buddington (1923). This disparity in values could be the result of higher-grade ore having been mined out prior to sampling, the spotty occurrence of gold in the vein, or selective sampling and reporting.

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# EAST OF HARVEY LAKE

(Figure 3, Map no. 41)

# **Location Access**

The East of Harvey Lake prospect is located on the north-central part of Woewodski Island, about 17 miles south of Petersburg. The topography is gently sloping, with brush, muskeg, and timber covering the area. Access to the prospect is gained by taking a helicopter to a nearby muskeg landing site and then following a narrow stream to a cut in the stream's western bank.

#### History

The area surrounding Harvey Lake was staked during the late 1970's and early 1980's. Cominco, Colony Pacific, Amselco, Kennecott, and Westmin Resources were all active in the area sometime between 1978 and 1998. Diamond drilling, soil sampling, and geophysical surveying were carried out east of Harvey Lake (J. McLaughlin, oral commun., 1998). A "discovery diamond drill hole" containing significant zinc values is reported in the vicinity of the east end of Harvey Lake (P. Beardslee, oral commun., 1998). The drill logs of the hole were not available for this study.

### **Mineral Assessment**

The East of Harvey Lake prospect is located in Mesozoic semischist and phyllite (Brew 1997j). According to Karl and others (1999) these are Triassic Hyd Group rocks.

BLM investigators found a 5-foot-high by 17-foot-long outcrop in the western bank of a small stream in an area with extensive brush, timber, and muskeg cover. The outcrop consists of iron-stained, silicified schist with 10 percent pyrite that is disseminated and in conformable bands. The schist strikes about 315° and dips 27° to 43° to the southwest. Four samples collected from the outcrop did not contain significant metal values (Map no. 41, samples 384, 8650, 9571, 9699).

# Conclusions

The East of Harvey Lake prospect lacks significant metal values and is not an important exploration target; however, the Triassic rocks in the general area are. Soil sampling or drilling in the vicinity might reveal more significantly mineralized rock.

# MAD DOG 2

(Figure 3, Map nos. 42.1-42.2)

# Location/Access

The Mad Dog 2 prospect is located on Woewodski Island, about 18 miles south of Petersburg. It is located southeast of Harvey Lake, along a small, stream-formed gulch at an elevation of 400 feet. The area is moderately steep, with muskeg, brush, and timber covering the site. Access is via float plane to Harvey Lake and bush wacking to the site or by helicopter.

#### History

The Mad Dog 2 prospect (and most of the northwestern part of Woewodski Island) was staked during the late 1970's and early 1980's. Cominco, Colony Pacific, Amselco, Kennecott, and Westmin Resources were all active in the area sometime between 1978 and 1998 (J. McLaughlin, C. Rockingham, oral commun., 1998). A Petersburg resident now holds the claims covering the Mad Dog 2 prospect. The claimant drilled two shallow diamond drill holes on the claims in 1998.

#### **Mineral Assessment**

The Mad Dog 2 prospect is located in Triassic Hyd Group volcanic flows and breccia (Karl and others, 1999).

The BLM's investigation of the Mad Dog 2 prospect revealed a sulfide band conformably hosted in iron-stained schist at an elevation of 360 feet. It is exposed in the northwest bank of a small creek. The sulfide band ranges in thickness from 0.3 to 0.8 feet, strikes 035°, and dips 45° to the southeast. It contains pyrite, chalcopyrite, and sphalerite. A small excavation for a drill platform and a cut in the bank of the creek expose this band for about 25 feet along strike.

BLM personnel collected six samples from the sulfide band. They contained from 67 to 2,867 ppb gold, from 2.4 to 27.1 ppm silver, from 240 to 1,512 ppm copper, and from 732 ppm to 2.9 percent zinc (Map nos. 42.1-42.2, samples 344-347, 9570, 9702). The diamond drill hole was collared just below this sulfide band and failed to encounter significant mineralized rock. Another drill hole, collared 260 feet at 030° from this hole, also failed to encounter significant mineralized rock. Investigation and sampling up the small creek to an elevation of 450 feet revealed no notable mineralized rock (Map no. 42.2, samples 348-350).

# Conclusions

The Mad Dog 2 prospect contains interesting values in gold, silver, copper, and zinc. However, the two drill holes failed to encounter significant mineralized rock. The Triassic rocks in the area are worthy of additional examination.

# FORTUNE

# (Figure 3, Map no. 43)

# **Location Access**

The Fortune prospect is located on the south end of Butterworth Island, off the west coast of Woewodski Island. It is about 20 miles south-southwest of Petersburg. The mineral occurrence is located in the intertidal zone. The topography of Butterworth Island is gently sloping, with brush and timber cover. Access is by boat or helicopter.

#### History

The Fortune claims were staked for gold, silver, and pyrite in 1955. Starting in 1978, the area was the site of activity by Cominco, Colony Pacific, Amselco, Kennecott and Westmin Resources. The Fortune area was staked around the same time as most of the northwestern part of Woewodski Island (J. McLaughlin, oral commun., 1998). It is currently part of the Mad Dog group of active claims.

# **Mineral Assessment**

The southern tip of Butterworth Island consists of Mesozoic greenschist and greenstone (Brew, 1997j) that have been identified as Triassic (Karl and others, 1999). The remainder of the island is mapped as Upper Cretaceous hornblende diorite (Brew, 1997j).

The BLM's examination of the Fortune prospect revealed mineralized rock that is largely covered with silt and kelp in the intertidal zone. Exposures reveal silicified, iron-stained, greenschist with conformable bands of sulfides from 0.075 to 1.0 feet thick. These bands consist of pyrite, black sphalerite, galena, and, based on high silver content, tetrahedrite. The area of silicified volcanic rock containing the bands of sulfides is about 15 feet wide and extends for 160 feet along strike. The bands strike 280° and dip 40° to the south. The mineralized exposure is covered by beach gravel immediately to the west and is not found farther to the west where hornblende diorite crops out. To the east, the mineralized zone is covered by tidewater. It is not found on Woewodski Island farther east, nor on the small island to the south of Butterworth Island.

BLM personnel collected four samples from the more highly mineralized parts of the 15-foot-wide zone. Values ranged from 255 to 1,590 ppb gold, 54 to 630.4 ppm silver, 341 ppm to 9.76 percent lead, and from 3,951 ppm to 20.1 percent zinc (Map no. 43, samples 28-29, 211-212).

#### Conclusions

The relatively wide mineralized zone and the substantial values in silver, lead, and zinc make the Fortune prospect an attractive exploration target. It is the only massive sulfide in the Duncan Canal area to contain significant silver. However, the limited extent of mineralized rock to the northeast and the likelihood that further exploring and, potentially, mining would be carried out under tidewater discourages exploration of the prospect.

# HATTIE

(Figure 3, Map no. 44)

#### Location/Access

The Hattie prospect is located about 20 miles south of Petersburg on the southwest side of Woewodski Island. It is about 2½ miles south of the Helen S Mine (Map no. 38). The prospect workings are located 500 feet from tidewater at an elevation of 60 feet. The area topography is gently sloping, with brush, old-growth, and second-growth timber covering the area. Access can be gained by boat, helicopter, or float plane to the beach, although rough seas can preclude float plane access. A trail leads to the mine from the beach.

#### History

The Hattie prospect was first staked in 1900 as the property of the Olympic Mining Co. It originally consisted of 60 claims (Alaska Kardex ,1982). Wright and Wright (1908) show the claim group extending from near sea level to over 560 feet elevation at Harrys Lake. They refer to the Hattie as the Lower Smith camp. According to Wright and Wright (1908), active development first started on the claims in 1901. A gold-bearing quartz breccia zone was explored by a 360-foot adit and a 135-foot winze with levels at 62 and 134 feet. Surface developments at the property consisted of a 1,000-foot tram, a wharf, and various buildings. By 1907 the mine winze was flooded (Wright and Wright, 1908). No additional development was reported on the property, but the claims were active in 1937 (Alaska Kardex, 1982). The Hattie area is included in the currently active Mad Dog claim group.

### **Mineral Assessment**

The Hattie prospect is located in Triassic Hyd Group greenstone and greenschist (Karl and others, 1999). In the immediate prospect area, the quartz veins are hosted in greenschist that has been identified as metarhyolite by the USGS (D.J. Grybeck, oral commun., 1996). Wright and Wright (1908) report a quartz and breccia zone or vein 5 to 20 feet thick that is hosted in greenstone. The zone or vein can be traced for several hundred feet and reportedly strikes northeast and dips steeply. Pyrite, chalcopyrite, galena, and sphalerite constitute 1 to 3 percent of the vein (Wright and Wright, 1908).

The BLM's investigation of the Hattie prospect revealed an adit with an unstable, partly caved portal at an elevation of 60 feet and an inclined raise at an elevation of 140 feet, which intersects the adit at a distance of about 130 feet from the adit portal. The portal is cut in a 6-foot-thick quartz vein that strikes 070° and dips 68° to the south. The raise is collared in a 5-foot-thick quartz vein that also strikes 070° to the east, but with vertical dip. The vein at the adit level is covered along strike. The vein at the top of the raise can be traced for about 60 feet to the northeast; from there it is covered.

BLM personnel collected five samples from the vein at the top of the raise and one sample each from the vein at the adit portal and from the dump (Map no. 44, samples 27, 2630-34, 2636). All

the samples contained 10 ppb or less gold. The silver, copper, lead, and zinc values were all very low as well.

#### Conclusion

The historic description of the mineral occurrence at the Hattie prospect sounds very similar to that of the Helen S Mine (Map no. 38). Previous investigators have expressed confusion between the descriptions of the Helen S Mine and Hattie prospect (Grybeck and others, 1984).

The BLM's examination of the surface exposures and dump at the Hattie failed to reveal significant metal values. Underground access is necessary to better determine the nature of the prospect's mineral occurrence; however, the adit portal is collared in an unstable shear zone that prevents safe access to the underground workings.

# **BRUSHY CREEK**

(Figure 3, Map no. 45)

# Location/Access

The Brushy Creek prospect is located on the south end of Woewodski Island, about 21 miles south of Petersburg. The topography is moderately sloping, with brush and timber covering the area. Access to the prospect can be gained by boat to the south side of Woewodski Island and then on foot, 0.25 miles to the first outcrops, or by helicopter to muskegs near the eastern end of the prospect.

# History

Westmin Resources was active in the Brushy Creek area during 1996 (Chris Rockingham, oral commun., 1998). Recently flagged surveying grids on the prospect indicate detailed work in the area (possibly soil sampling or geophysical surveying).

#### **Mineral Assessment**

The Brushy Creek prospect is located in Mesozoic greenschist and greenstone near its contact with Upper Cetaceous hornblende diorite (Brew, 1997j). According to Karl and others (1999), the greenstone and greenschist are Triassic Hyd Group volcanic rocks.

The BLM's investigation revealed a series of cuts in bluffs on the south side of a narrow creek. The creek, which follows a shear zone, trends about 075° to 085°. The foliation in the hosting greenstone schist trends about 055° to 085° and dips from 15° to 40° to the south. Five cuts that expose iron-stained, mineralized rock were examined and sampled. The cuts range in elevation from 90 feet to 170 feet and are scattered along 3,000 feet. The continuity of units between the cuts was not determined. Mineralized rock consists of disseminated, thinly banded sulfides hosted in silicified, limey volcanics. The sulfides are pyrite, sphalerite, and galena.

BLM personnel collected nine samples. The most prominent sample was a 2-foot chip that contained 423 ppb gold, 27.9 ppm silver, 7,380 ppm lead, and 2.6 percent zinc (Map no. 45, sample 195). Seven of the remaining samples contained from 1,735 ppm to 2.2 percent zinc (Map no. 45, samples 190, 192-195, 9636-37).

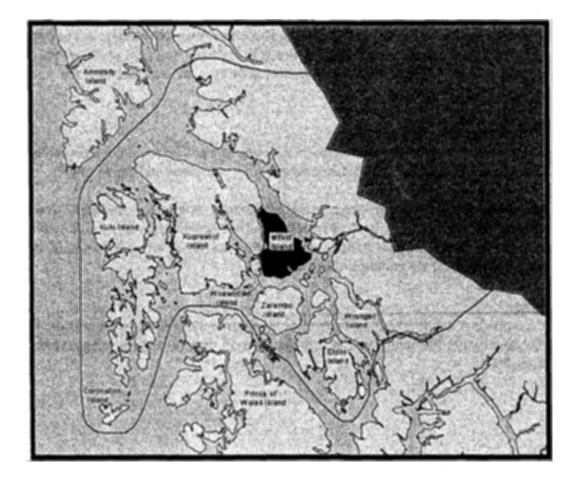
## Conclusions

Mineralized rock at the Brushy Creek prospect is scattered over a distance of 3,000 feet and contains interesting silver, lead, and zinc values. These factors make the Brushy Creek prospect a potential exploration target.

# MITKOF ISLAND

Property name ..... Plate 1, Map no.

Freel & Durham
Road Show
Mitkof Island, FS Road 6245



# FREEL & DURHAM

(Plate 1, Map no. 46)

# Location/Access

The Freel & Durham prospect is located on the east side of Mitkof Island, 9 miles southeast of Petersburg. The site is in an unnamed drainage 1½ miles west of Frederick Sound and a mile northeast of the head of Falls Creek. The drainage bottom is covered by large, mature timber, but the drainage passes through a 3-square-mile area predominated by muskeg. The prospect's location averages 170 feet in elevation. Access to the property can be gained by driving Forest Service road 6204 and then walking about a mile downhill to the southeast, across muskeg, to the drainage containing the claim.

# History

The earliest known record of activity in the Freel & Durham area is the staking of a mining claim for lode gold in 1957 (Alaska Kardex, 1982). Investigators found no other record of activity in published literature, nor did they find signs of mining activity in the area during a site visit in 1998.

# **Mineral Assessment**

The Freel & Durham prospect lies within metamorphosed Upper Cretaceous, Stephens Passage Group rocks. The rocks associated with this unit are schist and hornfels (Brew, 1997i).

BLM personnel searched the location described in the records (Alaska Kardex, 1982), but could find no outcrop in the area. They collected six samples from stream branches draining the area-three stream sediment and three quartz float samples (Map no. 46, samples 399-400, 2815-18). The samples had low precious- and base-metal values.

# Conclusions

Not enough is known about the Freel & Durham prospect to make definitive conclusions. However, the paucity of information and lack of evidence of mineral activity suggest the prospect is of little significance.

# **ROAD SHOW**

(Plate 1, Map no. 47)

# Location/Access

The Road Show prospect is located on the east side of Mitkof Island, 14 miles southeast of Petersburg. Located on a southeastern tributary of Big Creek, which empties into Frederick Sound, the site is immediately upstream from where Forest Service road 6235 crosses the tributary.

#### History

The Road Show prospect was staked for placer gold by Steve Homer and Annie Taylor in 1972 and held through 1973 (Alaska Kardex, 1982). No other record of activity is known in published literature, nor was there any sign of mining activity found during the BLM's site examination.

## **Mineral Assessment**

The Road Show prospect lies within Upper Cretaceous intrusive rocks of the Admiralty-Revillagigedo Plutonic Belt of Brew and Morrell (1983). The rocks associated with this unit in the Mitkof Island area are hornblende-biotite tonalite, granodiorite, quartz monzodiorite, and quartz diorite (Brew, 1997i).

BLM personnel examined the Road Show prospect area in 1998 and collected one pan concentrate, one grab sample of quartz vein float, and two stream sediment samples (Map no. 47, samples 401-402, 2819-20). Investigators found no outcrops in the area of the prospect. Float consists of metamorphosed sediments, metamorphosed volcanics, and quartz diorite. The float did not contain metallic minerals. The samples contained insignificant values for any elements of economic interest.

#### Conclusions

The insignificant metal values, the absence of evidence of prospecting activity, and the lack of published information about the Road Show prospect suggest the site is of little economic importance.

# MITKOF ISLAND, FS RD 6245

(Plate 1, Map no. 48)

# Location/Access

The Mitkof Island, FS Road 6245 occurrence is situated in a borrow pit, 20 miles south-southeast of Petersburg. The pit is on Forest Service road 6245, at an elevation of about 120 feet and within a quarter of a mile of the shoreline of Blind Slough on Sumner Strait. Access is by road.

# History

While doing a reconnaissance examination of the road cuts and borrow pits on Mitkof Island, BLM personnel discovered iron-stained rubble containing massive pyrrhotite in a borrow pit. The pit had been used for fill and road surfacing of logging roads in the area, and as such, all production was for that purpose (Forest Service, oral commun., 1998). There is no published reference to this site, other than as a source for rock.

## **Mineral Assessment**

The FS Road 6245 pit occurrence lies within a belt of Upper Cretaceous intrusive rocks. The rocks associated with this belt are hornblende-biotite tonalite, granodiorite, quartz monzodiorite, and quartz diorite (Brew, 1997i).

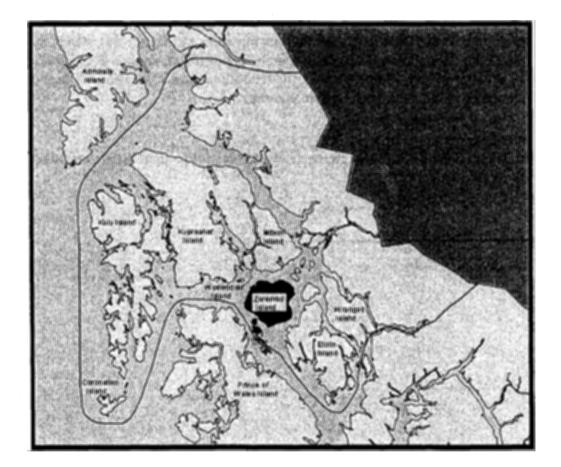
BLM personnel collected one sample of iron- and copper-stained rubble containing massive pyrrhotite in hornblendite. The sample contained 1,007 ppm copper, 303 ppm lead, and 395 ppm zinc (Map 48, sample 391).

#### Conclusions

The BLM's examination of the FS Road 6245 pit indicates a small, low-grade occurrence. Mineralized rock was only found in rubble, and the analytical result showed low metal values.

# ZAREMBO ISLAND

Property name Plate 1, Map no.
Zarembo Island, FS Road 52009 49
Frenchie
Zarembo Island Hornblendite 51.1-51.4
Lost Zarembo
Zarembo Island Fluorite 53.1-53.4
ZF
Round Point



# ZAREMBO ISLAND, FS RD 52009

(Plate 1, Map no. 49)

# Location/Access

The Zarembo Island, FS Road 52009 occurrence is located on the northwest side of Zarembo Island on Forest Service road 52009, about half a mile southwest of St. John Harbor. It is about 24 miles west of Wrangell. The area topography is gently sloping and covered with second-growth timber and thick brush. Access to the site is by boat and on foot or by helicopter.

# History

BLM personnel discovered the Zarembo Island, FS Road 52009 occurrence during this study.

# **Mineral Assessment**

The Zarembo Island, FS Rd 52009 occurrence is located in an area of Quaternary and Tertiary rhyolite (Karl and others, 1999).

The BLM's investigators found vuggy and drusy quartz and purple fluorite scattered in road fill. The rocks are similar to the Zarembo Island Fluorite occurrence (Map no. 53), which is located 11 miles to the south. A grab sample of sulfides in the road fill contained 546 ppb gold and 826 ppm arsenic (Map no. 49, sample 9651). The road fill appears to be near its place of origin; however, mineralized rocks were not found in outcrop.

# Conclusions

The Zarembo Island, FS Rd 52009 occurrence is worthy of follow-up to locate the source of the gold- and arsenic-bearing road fill.

# FRENCHIE

(Plate 1, Map no. 50)

# Location/Access

The Frenchie prospect is located on Zarembo Island about half a mile south of the head of St. John Harbor. It is about 22 miles west of Wrangell. The area topography is gently sloping and is covered with second-growth timber and thick brush; however, the prospect itself is located between 15-foot-high creek banks. It can be reached by following up the northern branch of the creek that flows into the southwest side of St. John Harbor. Access is by boat to St. John Harbor and then by foot up the creek. Alternate access is by helicopter, which may be able to make a difficult landing in the creek upstream from the occurrence.

#### History

The Frenchie prospect was first described by Buddington (1923) who visited it in 1921. He describes it as a 7.5-foot-thick, shallow-dipping, conformable, tabular layer of pyrite hosted in siliceous schist. The pyrite layer is exposed along the creek for a length of 130 feet and is explored by an adit 100 feet long and a shaft located about 100 yards north of the adit (Buddington, 1923).

In 1978 BP Alaska Exploration staked 34 claims, mapped and sampled the prospect, and recognized its importance as a strata-bound, massive sulfide deposit. In 1979 the company conducted a helicopter EM and magnetic survey, stream sediment and soil sampling, and follow-up ground geophysics over the 10 square miles of ground that contained the deposit and its host rocks (Brewer, 1979).

By the early 1980's, the USGS considered the Frenchie prospect "largely forgotten" and unrecognized as a volcanogenic massive sulfide deposit, but they later became the first to "relocate its prominent outcrop along the creek bank" and to rediscover it as a volcanogenic massive sulfide deposit (Grybeck and Berg, 1998).

In 1984 three holes were drilled on the Frenchie prospect. In 1996 Westmin Resources drilled another five holes (Rockingham, 1996).

#### **Mineral Assessment**

The Frenchie claim block occupies an 8- by 3-mile area in the central valley of Zarembo Island, which consists of Triassic Hyd Group and Permian and Mississippian Cannery Formation rocks (Karl and others, 1999). "Throughout the area, fine-grained, weakly metamorphosed, argillaceous sediments and minor argillaceous limestone predominate. Tuffaceous interbeds, tuffs, and massive to weakly foliated hornblende andesites are common locally (Brewer, 1979)."

The massive sulfide mineralized band at the Frenchie prospect is conformably hosted in silicified graphitic phyllite, argillite, and lesser slate, chert, and argillaceous limestone. These units strike west-northwest and dip  $15^{\circ}$  to  $20^{\circ}$  to the southwest. Where exposed, the footwall consists of

siliceous, pale green quartz-muscovite phyllite. The hanging wall consists of a thin layer of black phyllite and up to 18 inches of pale, siliceous argillite and chert with up to 10 percent pyrite and sphalerite. Above this hanging wall, pyritized argillite and schist predominate to the top of the cliff, a distance of about 15 feet (Brewer, 1979).

The massive sulfide mineralized band is exposed near the base of cliffs on either side of the creek that follows the strike of the band. The band is up to 6.5 feet thick and is exposed for 460 feet along the creek. The western limit is obscured by cover, and the eastern limit is defined by a fault. "The massive sulfide band consists of 20 to 35 percent fine-banded pyrite, subordinate pyrrhotite, and minor sphalerite, galena, and chalcopyrite in a quartz-barite gangue. Barite varies between 5 and 20 percent (Brewer, 1979)." Thirteen samples were collected across the sulfide band at locations along its 460-foot length. They averaged 0.047 oz/ton gold, 0.42 oz/ton silver, 0.55 percent copper, 0.08 percent lead, and 1.48 percent zinc (Brewer, 1979).

BP Alaska Exploration conducted a helicopter EM and magnetic survey with a spacing of 1/5 mile over the Frenchie deposit and its host rocks. One line, specifically flown over the Frenchie massive sulfide band to determine its signature, gave a weak electromagnetic response. The remaining area gave a number of low-ranking responses. Soil and stream sediment sampling, and in some cases ground geophysics, were used to follow up these anomalies. The results were negative (Brewer, 1979).

The BLM's investigation of the Frenchie prospect was confined to examining the massive sulfide band. The results of the examination verified the work and descriptions done by BP Alaska Exploration. A shallow-dipping, sulfide band that averages 5 feet thick is exposed along a creek for a distance of 460 feet. A 35-foot-long, partly flooded adit is driven into the sulfide zone. The shaft described by Buddington (1923) was not found. Chip samples from the sulfide band and from within the general vicinity contained up to 1,204 ppb gold, 16.1 ppm silver, 5,453 ppm copper, 3,973 ppm lead, 4.9 percent zinc, and 2,406 ppm arsenic (Map no. 50, samples 17-18, 305, 9660, 9662). The average of eight chip sample lines across the massive sulfide band was 0.019 oz/ton gold, 0.32 oz/ton silver, 0.25 percent copper, 0.16 percent lead, 2.4 percent zinc, and 0.08 percent arsenic (Map no. 50, samples 17-18, 207, 305, 308, 2616-17, 9662). These results compare well with the numbers obtained by BP Alaska Exploration (Brewer, 1979).

#### Conclusions

The Frenchie deposit, as it is now known, is too small and too low-grade to be considered for development. Further exploration down dip, along the massive sulfide band, or of the Triassic rocks in the vicinity might reveal a larger, higher-grade deposit. However, the lack of a distinctive geophysical signature will hamper further exploration.

# ZAREMBO ISLAND HORNBLENDITE

(Plate 1, Map nos. 51.1-51.4)

#### Location/Access

The Zarembo Island Hornblendite prospect is located on the northeast side of the island, north of Deep Bay. It is 10 miles west-southwest of Wrangell. The area topography is of moderate relief and covered with second-growth timber and thick brush. Access to the prospect is by boat.

#### History

The Gallavantin claims were staked for iron and copper in the area of the Zarembo Island Hornblendite prospect in 1974 (Alaska Kardex, 1982). However, other than the Kardex reference, a literature search revealed no mention of a prospect in the area. This study is the first to describe the copper mineralization at the Zarembo Island Hornblendite prospect.

#### **Mineral Assessment**

The Zarembo Island Hornblendite prospect is located in what has been mapped as Cretaceous gabbro (Karl and others, 1999). In places it consists predominantly of coarse- to fine-grained hornblende and could be considered a hornblendite. It has a 0.8- by 0.4-mile outcrop pattern. It is exposed along the beach for 1,900 feet, in a road cut at an elevation of 100 feet, and along an overgrown road to an elevation of 200 feet.

The BLM's examination revealed blebs and disseminations of chalcopyrite along with pyrite and magnetite hosted in hornblendite. Vegetative cover prevented determining the true extent of the chalcopyrite-rich zones. Where exposed on the beach and in the road cut, the hornblendite with visible chalcopyrite extends up to tens of feet.

A sample of the best copper mineralization found on the beach contained 2,760 ppm copper, 10 ppb platinum, and 28 ppb palladium (Map no. 51.1, sample 9666). A 0.2-foot grab sample of the best copper mineralization found in the road cut contained 1,172 ppm copper, 10 ppb platinum, and 7 ppb palladium (Map no. 51.3, sample 301). A 0.4-foot grab sample collected at an elevation of 200 feet contained 1,291 ppm copper, 6 ppb platinum, and 3 ppb palladium (Map no. 51.4, sample 298).

BLM investigators collected three stream sediment samples from drainages in the hornblendite. One was slightly anomalous in platinum at 11 ppb (Map no. 51.1, sample 311). The other two did not contain significant metal values (Map nos. 51.1-51.2, samples 313, 9665).

#### Conclusions

Where exposed, the Zarembo Island Hornblendite prospect contains anomalous values in copper, platinum, and palladium. Detailed examination of the area may reveal more extensive, highergrade mineralized rock.

# LOST ZAREMBO

(Plate 1, Map no. 52)

### Location/Access

The Lost Zarembo prospect is located on Zarembo Island, in a borrow pit 6 miles from St. John Harbor along Forest Service road 6590. It is 21 miles west-southwest of Wrangell. The area is covered with second-growth timber and thick brush. Access to the prospect is by boat and foot or by helicopter.

#### History

The Lost Zarembo prospect was first described by Grybeck and others in 1984 as a Triassic volcanogenic massive sulfide deposit that consists of three massive sulfide layers hosted in orange-weathering, greenish gray metarhyolite. The most prominent sulfide layer is 3.5 feet thick and extends for 45 feet (Grybeck and others, 1984).

#### **Mineral Assessment**

The Lost Zarembo prospect is located in an area mapped as Quaternary and Tertiary rhyolite (Karl and others, 1999). The occurrence itself is hosted in a small fault block of Triassic volcanic rocks (Grybeck and others, 1984).

The BLM's examination of the Lost Zarembo prospect revealed a block of banded, iron-stained, silicified greenstone that strikes 270° to 310° and dips 30° to 50° to the north. It is exposed in the northwest wall of a borrow pit. The block extends about 50 feet along strike and is bounded on the southwest by a fault contact with rhyolite and on the northeast by cover and a basalt dike. Within this block, three conformable bands of massive sulfides, 0.4, 0.8, and 2.6 feet thick, are separated by 1.2 to 3.0 feet of less silicified greenstone. The massive bands extend for about 45 feet. To the northeast, they are bounded by cover and a basalt dike; to the southwest, they pinch out. They contain pyrite, pyrrhotite, chalcopyrite, galena, sphalerite, and barite.

Samples across the sulfide bands at Lost Zarembo contained from 8.3 to 27.6 ppm silver, 966 to 3,781 ppm copper, 818 to 3,567 ppm lead, 1.9 to 4.6 percent zinc, and from 1.53 to 10.10 percent barium (Map no. 52, samples 316, 318, 321). Samples across the greenstone between the sulfide bands contained from 331 to 2,038 ppm zinc (Map no. 52, samples 317, 319). A grab sample of higher-grade sulfides contained 5.5 percent zinc (Map no. 52, sample 2625). A representative sample across barite- and sphalerite-bearing rubblecrop contained 4.9 percent zinc and 29.3 percent barium (Map no. 52, sample 9667).

#### Conclusions

The massive sulfide-barite bands at the Lost Zarembo prospect are too small and dismembered to be significant exploration targets in themselves. Other Triassic rocks in the area, however, particularly the banded silicified greenstones, are likely to attract mineral industry exploration attention.

# ZAREMBO ISLAND FLUORITE

(Plate 1, Map nos. 53.1-53.4)

#### Location/Access

The Zarembo Island Fluorite occurrence is located on the southwest side of Zarembo Island, between Macnamara Point and Point Nesbitt. It is about 25 miles southwest of Wrangell. Rocks in the intertidal zone and along the shoreline are well exposed; however, inland, the area is covered with second-growth trees and thick brush. Access to the prospect is by boat or helicopter.

#### History

The Zarembo Island Fluorite occurrence was first recognized by Buddington in 1923 (Buddington, 1923). In 1962 the Bureau of Mines examined 10 miles of beach between Macnamara Point and Point Nesbitt and collected petrographic, pan concentrate, stream sediment, and rock chip samples (Van Alstine and Berryhill, 1963). In 1991 the USGS visited the site and studied its geodes for rare-earth elements (Philpots and Evens, 1992).

#### **Mineral Assessment**

The Zarembo Island Fluorite occurrence is located in an area of Quaternary and Tertiary rhyolite and andesite (Karl and others, 1999). The fluorite mineralization is hosted in rhyolite (Grybeck and others, 1984).

The Bureau of Mines examination of the area in 1962 revealed fluorite as fracture fillings with drusy quartz in vuggy breccia zones and in geodes for 1,200 feet along the shoreline. The fluorite fracture fillings are up to 1 inch thick, widely scattered, and predominately hosted in banded volcanic rocks. The geodes are 0.25 to 12 inches in diameter. A few brecciated shear zones up to 3 feet thick and 100 feet long are filled with cream-colored chalcedony. Samples failed to reveal significant concentrations of fluorite, radioactive elements, or other economic minerals (Van Alstine and Berryhill, 1963).

In 1991 the USGS examined the geodes in the Zarembo Island Fluorite vicinity. Only trace amounts of rare-earth elements were identified (Philpots and Evens, 1992).

The BLM's work at the prospect included checking the geodes and quartz-fluorite veins for minerals of economic interest. A scintillometer survey revealed slightly elevated radiation levels in the geodes. Samples collected from geodes, silicified zones, and fluorite contained up to 291 ppb gold, 1,768 ppm barium, and 38 ppm lanthanum (Map no. 53.4, samples 19, 21).

#### Conclusions

The Zarembo Island Fluorite occurrence does not contain significant concentrations of fluorite, radioactive elements, or other minerals of economic interest. The mineralized rock is scattered and low-grade. The occurrence is unlikely to attract mineral exploration.

# ZF

(Plate 1, Map no. 54)

### Location/Access

The ZF prospect was originally covered by a large block of claims located on the southeast quarter of Zarembo Island, approximately 21 miles southwest of Wrangell. The site examined by the BLM is located at an elevation of 1,700 feet on the rounded top of a mountain in the center of sec. 29, T. 64 S, R. 81 E. This area of Zarembo Island has a well-developed, subparallel, northeast-southwest drainage pattern between Meter Bight to the northeast and Stikine Strait to the southwest. The vegetation is mixed muskeg and small timber. Access is via helicopter or by foot from the nearby logging road system.

#### History

The ZF block of 242 lode claims was staked in 1978 by NERCO Exploration Co. An option on the claim block was granted to Resource Associates of Alaska in 1979 (Bureau of Land Management, MAS) and in 1981 to Houston Oil and Minerals (Bundtzen and others, 1982). The claim block was dropped by NERCO in 1986 (Bureau of Land Management, ALIS).

#### **Mineral Assessment**

The ZF prospect lies within a unit of Quaternary and Tertiary rhyolites, rhyodacites, and related siliceous intrusive and extrusive rocks (Brew, 1997e). This unit is part of a belt of Quaternary to Tertiary felsic to intermediate igneous rocks that crops out along the southwestern half of Zarembo Island. The igneous belt is in contact with Paleozoic and Mesozoic metamorphic rocks to the northeast and is bounded by the Clarence Strait Fault to the southwest (Brew, 1997e; Brew and others, 1984).

Rocks in the vicinity of the prospect are mostly rhyolites with a bleached white appearance. They are massive to thinly bedded and commonly sheared, with milky quartz deposited along the shear surfaces. No sulfides were observed in any of the outcrops examined by BLM investigators. One sample collected from the site contained only trace amounts of precious- and base-metals (Map no. 54, sample 293).

#### Conclusion

Further work is needed to define the occurrence at the ZF prospect. No information was found regarding the deposit type or commodity targeted by the NERCO claim block.

# **ROUND POINT**

(Plate 1, Map no. 55)

### Location/Access

The Round Point occurrence is located in the southeastern quarter of Zarembo Island, approximately 18 miles southwest of Wrangell. The main body of the claim block covers the ridge complex west of Round Point and southeast of the major drainage flowing into Meter Bight. The steep flanks of the mountains are well timbered, and the rounded peaks are covered with mixed muskeg and scrub timber. Peaks rise to elevations of 2,457 feet and are incised by steep river valleys that descend to sea level within a few miles. Access to this area is via helicopter.

#### History

In 1978 Mapco Inc. staked three claim blocks in the Round Point area: the Hazel, with 344 claims; the Erica, with 36 claims; and the Frances, with 6 claims (Bureau of Land Management, ALIS). The commodities listed include molybdenum, fluorine, and uranium, although no information was found describing the discovery locations of the commodities (Interagency Minerals Coordinating Group, 1999). The Hazel claims cover all or part of sections 22 to 28, 33 to 36 of T. 64 S, R. 81 E; sec. 3, T. 65 S, R. 82 E; and sec. 31, T. 64 S, R. 82 E. The Erica claims cover part of sec. 30 of T. 64 S, R. 82 E, and part of sec. 25 of T. 64 S, R. 81 E. The Frances claims are in sec. 28, T. 64 S, R. 81 E (Bureau of Land Management, MAS).

#### Mineral Assessment

The Round Point prospect lies within a belt of Quaternary to Tertiary intrusive and extrusive igneous rocks. In the southeastern part of the prospect, a unit of Mesozoic greenschist and greenstone crops out (Brew, 1997e) that has been defined as Triassic Hyd Group (Karl and others, 1999).

After observing a prominent iron-stained zone during aerial reconnaissance of the area, BLM personnel traversed along a creek that flows southeast across sec. 36, T. 64 S, R. 81 E. The rocks exposed in the creek are mapped as Upper Mesozoic greenschist and greenstone (Brew, 1997e). Approximately 0.3 miles downstream from a small lake that feeds the creek, between 1,500 and 1,600 feet elevation, investigators found an outcrop of iron-stained schist with sulfides, both in the creek and in sparse outcrops to the east of the creek. The sulfides appear to be concentrated along a contact with a basalt sill. BLM personnel found a 1-inch-diameter drill hole at this location. As they continued down the creek to an elevation of 1,120 feet, they found no other mineralized rock.

The schist contains chalcopyrite and sphalerite, both as disseminations and in conformable finegrained, wispy bands. A conformable mineralized band 0.1 to 0.9 feet thick that strikes 007° and dips 15° east is exposed above a waterfall in the creek. It is hosted in the iron-stained schist and is exposed for 15 feet in the creek bed. It is covered to the north and south. Chip samples across this band contained from 17.2 to 55 ppm silver, from 5,588 ppm to 2.1 percent copper, and from 3,827 ppm to 1.1 percent zinc (Map no 55, samples 354, 356). Other chip samples collected from the iron-stained schist at locations downstream, upstream, and to the east of the mineralized band contained up to 2,521 ppm copper and 7,000 ppm zinc. A select sample contained 1.5 percent zinc (Map no. 55, sample 9687).

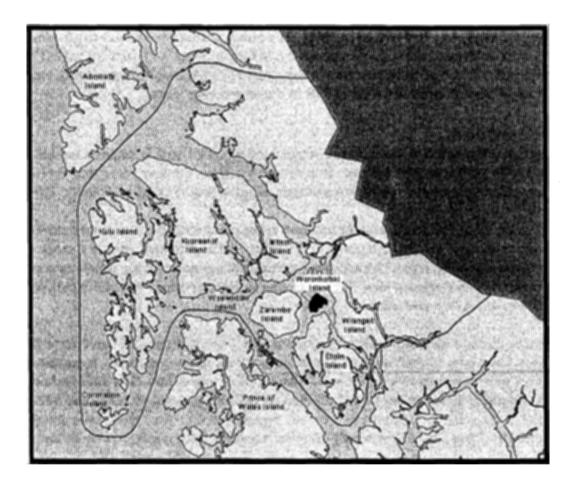
# Conclusions

The BLM's investigation of the Round Point area located a small occurrence of copper and zinc. Although minor, this occurrence encourages additional reconnaissance in the area for bedded massive sulfide deposits.

# WORONKOFSKI ISLAND

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Property name Pl	late 1, Map no.
Exchange	56
Sunrise	57



# (Plate 1, Map no. 56)

### Location/Access

The Exchange prospect is located on the northwest side of Woronkofski Island, near Wedge Point, about 7 miles southwest of Wrangell. The topography in the area is gently sloping and covered with second-growth timber and thick brush. The prospect is located on the shoreline, and access is by boat or helicopter.

#### History

The Exchange claims were first staked in 1900. The prospect consists of a 12- to 15-foot-wide quartz vein with moderate gold values, exposed by surface cuts and a 45-foot-long adit (Wright and Wright, 1908). The claims were active in the mid-1970's (Alaska Kardex, 1982), but there is little evidence of what transpired on the claims in the intervening years.

#### **Mineral Assessment**

The prospect area is mapped as Jurassic to Cretaceous Seymour Canal Formation turbidites (Karl and others, 1999). However, the prospect is underlain by felsic intrusive rocks that are likely a continuation of the Cretaceous quartz monzodiorite mapped nearby (Karl and others, 1999).

The BLM's examination of the Exchange prospect revealed an irregular quartz vein up to 16 feet thick, intermittently exposed through cover for 250 feet, in the intertidal zone, in a creek bed, and in a 45-foot-long adit. The vein is hosted in a granite porphyry and contains small amounts of galena. It strikes north-south and dips 30° to the west in the intertidal zone, and it strikes 310° and dips 20° to the south in the adit.

Investigators collected nine samples from the quartz vein. The highest gold value came from a sample across 5 feet of a 16-foot-wide part of the quartz vein in the creek bed. It contained 923 ppb gold, 26.6 ppm silver, and 944 ppm lead (Map no. 56, sample 206). The next highest value was from a sample collected underground across 3 feet of a larger vein. It contained 532 ppb gold, 58 ppm silver, and 2,660 ppm lead (Map no. 56, sample 10). The other seven samples contained from less than 5 to 131 ppb gold. A stream sediment sample from a creek that crosses the quartz vein did not contain significant metal values (Map no. 56, sample 14).

### Conclusions

The gold values found at the Exchange prospect are too low to attract further exploration of this deposit. However, the existence of the relatively large quartz vein with low but anomalous gold values encourages additional exploration in the area.

### **SUNRISE**

(Plate 1, Map no. 57)

# Location/Access

The Sunrise placer prospect is located on the northwest side of Woronkofski Island, at the mouth of the creek that drains Sunrise Lake. It is about 7 miles southwest of Wrangell. The topography in the area is gently sloping and is covered with second-growth timber and thick brush. Access to the prospect is by boat or helicopter.

### History

The Sunrise 1 and 2 placer claims were staked for gold in 1974 (Alaska Kardex, 1982). A literature search revealed no additional mention of this prospect.

### **Mineral Assessment**

The 2-mile-long creek that drains Sunrise Lake cuts Cretaceous quartz monzodiorite and Jurassic to Cretaceous Seymour Canal Formation slate (Karl and others, 1999). Gravels from the creek consist of slate and diorite fragments.

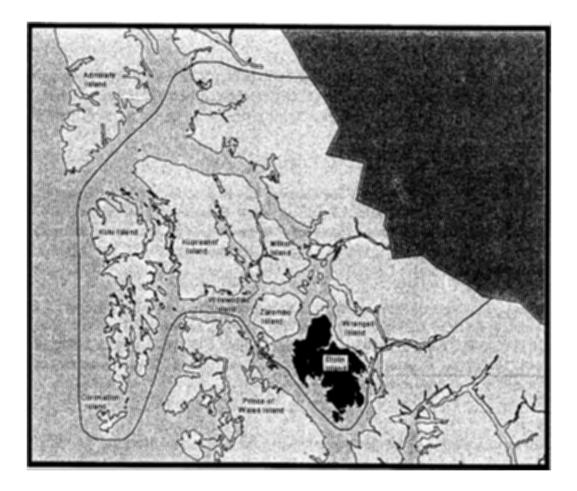
The BLM's examination of the Sunrise placer claims consisted of collecting a pan concentrate and two stream sediment samples. The samples did not contain gold or any other significant metal values (Map no. 57, samples 63-65).

#### Conclusions

The area has little potential for placer gold.

# **ETOLIN ISLAND**

Property name ...... Plate 1, Map no. Steamer Bay ..... 58.1-58.2



# **STEAMER BAY**

(Plate 1, Map nos. 58.1-58.2)

# Location/Access

The Steamer Bay occurrence is located at the head of Steamer Bay on the west side of Etolin Island, just south of the confluence of Stikine Strait and Clarence Strait. It is approximately 26 miles south-southwest of Wrangell. The site encompasses five streams that drain the Keating Range to the northeast. Steamer Bay can be reached by boat from Wrangell, float plane, or helicopter. The inland creeks are accessible by foot only. A Forest Service cabin is located at the mouth of Steamer Bay on the northeastern shore.

# History

The Steamer Bay occurrence was staked for lead by Paul Pieper in 1972 and held through 1973. It consisted of the Plumb 1-22 claims and the Plumb fractions 23-26. The only activity mentioned took place on the Plumb 1-5; however the type of activity was not described (Alaska Kardex, 1982).

# **Mineral Assessment**

The occurrence lies along the margins of the Steamer Bay Fault, which cuts the Jurassic to Cretaceous Brothers Volcanics/Douglas Island Volcanics. Steamer Bay and Porcupine Creek are the surface expressions of this northwest- to southeast-trending fault. The rocks associated with this unit are andesite to basalt flows, volcanic breccias, volcanic graywacke, tuff, phyllite, and slate (Brew, 1997a, 1997b).

BLM personnel made short traverses up the two streams that drain into Steamer Bay. They collected two samples from float in the streams (Map no. 58.1, samples 467, 8719). Sample 467, from a piece of silicified breccia, contained 10.9 ppm silver, 1,407 ppm copper, 1.01 percent lead, and 1.9 percent zinc. Because of time and weather constraints, BLM personnel were unable to make a complete examination of the area.

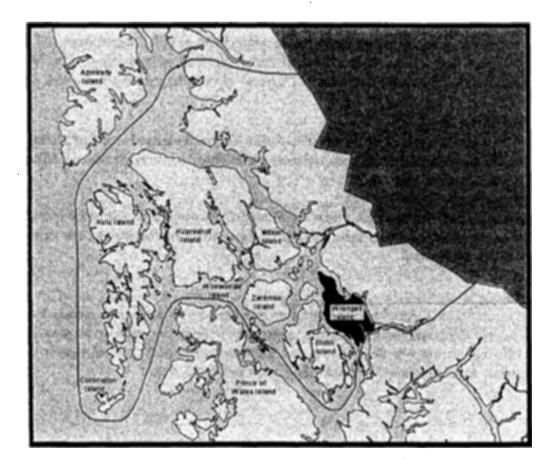
# Conclusions

Of the five streams included in this prospect, only two have been examined briefly. It is necessary to examine the other three streams to determine the nature and extent of mineralization in the area.

# WRANGELL ISLAND AND NEARBY ISLANDS

Property name	 Plate 1, Map no.

Wrangell Airport Pit 59	9
Salamander Creek Pit 60	0
Bruiser	1
Niblack Island	2



# WRANGELL AIRPORT PIT

(Plate 1, Map no. 59)

#### Location/Access

The Wrangell Airport Pit is located adjacent to the northwest end of the Wrangell airport. It is accessible by road; however, the entrance to the pit itself is blocked by a locked gate that prevents vehicular access, but does not prevent access by foot. The pit belongs to the State of Alaska and has been used by the State Department of Transportation for construction projects.

#### History

Reference to granites near the town of Wrangell was made in a report published in 1891 by Frank Adams of McGill University in Montreal, Quebec, Canada (Adams, 1891). Adams, while on the staff of the Geological Survey of Canada, was given samples collected in 1887 by participants of an expedition to the Yukon and northern British Columbia and asked to make an examination. Of the rocks received, three, including a granite specimen from near Wrangell, were extraordinary enough that Adams made a detailed study. His findings indicate that the Wrangell granite contains epidote and associated allanite (Adams, 1891). Allanite is a rare-earth silicate.

#### **Mineral Assessment**

The Wrangell Airport Pit exposes an intrusive rock that has been mapped as a Cretaceous hornblende-biotite tonalite. Similarly mapped units are exposed to the northwest on Mitkof and Kupreanof Islands (Brew and others, 1984).

BLM personnel collected three samples from the Wrangell Airport Pit to assess the potential for a rare-earth resource (Map no 59, samples 3821-23). Analytical results indicate low rare-earth values in the samples collected.

#### Conclusions

This property should probably not be considered an occurrence. Allanite, though a ceriumbearing epidote that in places contains yttrium, apparently is fairly common in the area. In addition, cerium and yttrium silicate minerals don't appear to be significant sources for these elements. Instead, these elements are more likely produced from oxides.

# SALAMANDER CREEK PIT

(Plate 1, Map no. 60)

#### Location/Access

The Salamander Creek borrow pit is located near the Salamander Creek picnic area, which is 7.5 miles from the beginning of Forest Service road 6265 on Wrangell Island. It is about 14 miles south-southeast of Wrangell. The topography in the area is moderately steep with second-growth timber and brush cover. Access to the prospect is by vehicle.

#### History

The Salamander Creek borrow pit is spectacularly iron-stained with orange, red, and yellow. It was reported by a helicopter pilot as well as by USGS geologist Dave Brew. Brew was the first to map this pit in detail, and he reported its potential importance to the BLM via electronic mail in 1998.

#### **Mineral Assessment**

The Salamander Creek borrow pit is located in Upper Cretaceous, metamorphosed, Stephens Passage Group rocks near their contact with Upper Cretaceous biotite granodiorite (Brew, 1997c).

The BLM's examination revealed a contact zone between biotite granodiorite, and schist and slate. The contact zone is irregular, locally brecciated, silicified, and contains disseminations and blebs of pyrite and pyrrhotite in biotite and muscovite schist. Locally the zone contains green and red garnets. Investigators collected seven samples from various parts of the contact zone. The two highest-grade samples contained 227 ppm copper and 17 ppm molybdenum (Map no. 60, samples 76, 78).

#### Conclusions

Limited BLM sampling indicates that the Salamander Creek borrow pit does not contain significant metal values. However, the contact zone is sufficiently interesting to encourage examination of the area for additional occurrences.

#### BRUISER

#### (Plate 1, Map no. 61)

### Location/Access

The Bruiser property is located on the west side of Found Island, which is off the southern tip of Wrangell Island. It is approximately 28 miles south-southeast of Wrangell. The rocks of interest lie in the short cliffs along the high-tide line and are best seen at medium to low tide. Inland, the vegetation is very dense. The island can be reached by boat from Wrangell. Alternatively, float plane and helicopter access is possible at low tide.

#### History

The Bruiser No. 1 claim was first staked on Found Island by Clint Payne in 1961. Besides the fact that the claim was staked for gold, information regarding the property is vague. It appears as though the claim was active through 1967 and again between 1970 and 1977 (Alaska Kardex, 1982).

#### **Mineral Assessment**

Found Island has been mapped as Jurassic to Cretaceous sediments (Gehrels and Berg, 1992). Along the west-central shoreline, a network of concordant quartz veins is hosted in black sandy slates and staurolite schist. The veins vary in width from stringers to 3.0 feet, strike 020°, and dip 31° to the southeast. The quartz veins appear to be nearly barren, with only minor amounts of pyrrhotite present.

BLM personnel conducted a brief reconnaissance along the western shoreline of Found Island. The quartz veins described above were the only rocks observed with any associated sulfides. Samples of the quartz veins contained up to 417 ppm tungsten, but no other significant metal values (Map no. 61, samples 468-469, 8720-21).

#### Conclusion

The Bruiser property consists of a network of barren quartz veins with no apparent mineral value.

# NIBLACK ISLAND

(Plate 1, Map no. 62)

### Location/Access

The Niblack Island occurrence is located 31 miles south-southeast of Wrangell on a small group of islands in Ernest Sound. The claims associated with the occurrence are on the two largest islands. Access to the islands is best by boat, although float plane access is possible in fair weather, and helicopter access is possible at low and medium tide.

#### History

In 1956 as many as ten claims were staked by six different people at various locations on the Niblack Islands. All the claims were staked for copper; however, there is no information of development work (Alaska Kardex, 1982).

#### **Mineral Assessment**

The rocks on the Niblack Islands are mapped as Tertiary granites (Gehrels and Berg, 1992). In at least one area, these granites were observed to contain small amounts of chalcopyrite.

The BLM's investigation of the Niblack Island occurrence consisted of three short traverses: one around the northern tip of the large central island, the second around the northern tip of the small island to the north of the long Niblack Island, and the third around the northern tip of the long island. A sample of granite, collected from the north side of the small island on the second traverse, contained 1,725 ppm copper (Map no. 62, sample 8716).

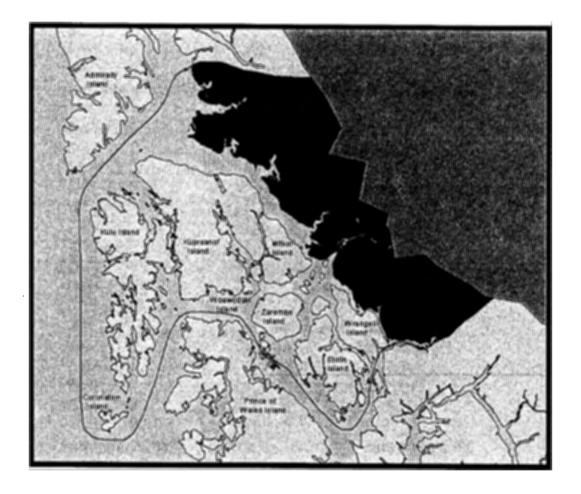
#### Conclusions

The large number of claims staked in the Niblack Island area by six different people in the same year make this prospect interesting. However, the BLM's investigation did not reveal significant sulfide mineralization.

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# MAINLAND

Property name Plate 1, Map no.
K & D Mine       63         Sun       64.1-64.2         The Islander       65         Cascade       66         Buck Bar Placer       67.1-67.6         Mary Moose       68         Andrew Creek       69.1-69.9
Groundhog Basin Area Figure 4, Map no.
North Silver       70.1-70.5         Northeast Cliffs       71.1-71.2         AMAX Molybdenum       72         Groundhog Basin       73.1-73.4         South Silver       74         Copper Zone       75.1-75.2         North Marsha Peak       76.1-76.2         East Marsha Peak       77.1-77.2         Nelson Glacier       78.1-78-2         Huff       79.1-79.7         West Nelson Glacier       80         Glacier Basin       81         Lake       82.1-82.2         Berg Basin       83         Copper King       84.1-84.2
Property name Plate 1, Map no.
Berg



# K & D MINE

(Plate 1, Map no. 63)

#### Location/Access

The K & D Mine is on the north side of Libby Creek, which is on the mainland east of Stephens Passage, between Hobart Bay and Windham Bay. It is about 51 miles north-northwest of Petersburg. The prospect workings are about 1.5 miles from the shoreline of Stephens Passage and are within 50 feet of the stream embankment. The references that describe the location of the K & D as 2.5 miles from the beach, as it is shown on the USGS Sumdum B-5 quadrangle map, are in error. The site may be accessed by helicopter or on foot by walking about 0.25 miles upstream from a logging road that crosses over Libby Creek. The logging road is part of the Hobart Bay logging road system of Sealaska Regional Native Corporation. The Libby Creek drainage is Sealaska land and the entire area around the prospect has been logged.

#### History

The K & D Mine is named after Herman Kloss and Jack Davis, the earliest recorded claimants of the property (U.S. Bureau of Mines, Mine Production Records). The exact date of discovery is unknown. In 1939 the property was listed in Bureau of Mines records as the "Marie." The same records show that a 2-ton Gibson mill was on the site and that there was 90 feet of drift. In 1939 to 1940, a total of 42 tons of ore was processed by amalgamation treatment that recovered 15 ounces of gold and 6 ounces of silver. In 1947 to1948, the only other years of recorded production, a total of 16 tons of ore was processed by amalgamation, and 10 ounces of gold and 4 ounces of silver were recovered (U.S. Bureau of Mines, Mine Production Records). By the summer of 1948, the operation included a 145-foot-long adit with an associated 38-foot inclined shaft (Stewart, 1949). Aside from annual maintenance, no further extension of underground workings were reported after that time (Alaska Kardex, 1982).

In 1950 the Bureau of Mines collected and analyzed five samples from the K & D Mine. Three of the samples had notable gold values: 1.95, 0.71, and 0.50 oz/ton gold (Peterson, 1950). Also noteworthy is the presence of native antimony, which is found near the face of the underground workings (Stewart, 1949).

#### Mineral Assessment

The K & D Mine area is covered by metamorphosed, Permian to Cretaceous sedimentary and volcanic rocks (Gehrels and Berg, 1992). The mineralized vein at the prospect is conformable with the structure in a graphitic, gray schist (Williams, 1951a).

The mineralized rock at the K & D consists of a large quartz vein up to 25 feet thick. The vein is exposed by an adit and trenches, as well as in the bed of Libby Creek near the workings. The creek generally follows the strike of the vein. The vein strikes from  $022^{\circ}$  to  $050^{\circ}$  and dips from  $20^{\circ}$  to  $44^{\circ}$  to the northwest. The vein is traceable in the adit and stream bank for 200 feet.

There were probably several periods of shearing during vein formation at the K & D, which allowed for multiple mineralizing episodes and the development of a complex mineral suite. The main quartz vein is locally thick and massive, but much of the vein is highly fractured and ribboned with 1- to 6-inch-thick, parallel quartz layers that make up the full width of the vein. The vein contains stibnite, galena, sphalerite, arsenopyrite, jamesonite, native antimony, and gold, which are primarily found in shoots, or in shears or fractures, within wide quartz bands. The strike and dip of the shoots varies somewhat from that of the main vein (Williams, 1951a).

In 1998 BLM personnel mapped and sampled the surface features and outcrops at the K & D site. At the time of examination, the adit portal was partly caved and the workings flooded, so the underground features were not examined or sampled.

Five of the BLM's 12 samples collected from the K & D Mine had gold concentrations at or above 800 ppb. The highest-grade sample contained 0.757 oz/ton gold, 50 ppm silver, 1.27 percent arsenic, and anomalously high lead, zinc, and cadmium over 2.3 feet (Map no. 63, sample 3693). This sample was taken from the northeast side of a small, shallow, inclined shaft located southwest of the main adit. Field observations and chemical analyses indicate that the gold in this sample was probably associated with arsenopyrite. The sample with the next highest grade was collected from the same location. It contained 7,447 ppb gold, 169 ppm silver, 1.06 percent lead, over 10,000 ppm arsenic, and anomalously high levels of zinc, cadmium, mercury, and antimony (Map no. 63, sample 3694). All of the samples with high gold values also had anomalously high arsenic values.

#### Conclusions

Although the quartz vein at the K & D Mine is relatively large and continuous, elevated preciousmetal contents are restricted to isolated parts of the vein. The mineralized parts of the vein are generally thin and discontinuous. As now known, the K & D Mine is unlikely to become a significant precious- or base-metal resource.

#### SUN

(Plate 1, Map nos. 64.1-64.2)

#### Location/Access

The Sun prospect is located on the south side of Glory Lake, east of Port Houghton and about 36 miles north of Petersburg. The prospect is located near the mouth of the longest drainage that flows into the south side of Glory Lake, near its eastern end. The easiest access to the site is by helicopter or float plane. In the past, access was available by a trail that lead from Farragut Bay, along the Farragut River, across Farragut Lake, and on to Glory Lake. The prospect is situated at an elevation of 500 feet in steep topography. Vegetation in the area is re-establishing itself following recent glaciation.

#### History

Glenn Reid of Petersburg, Alaska, held the Sun claims in 1974 (Alaska Kardex, 1982). There is no other published record of activity at the site. Except for a single exploratory drill hole, BLM investigators found no evidence of mining activity.

#### **Mineral Assessment**

Detailed geologic maps are not available for the Sun prospect area, but a regional map describes a tonalite of Paleocene or Cretaceous age in the vicinity (Gehrels and Berg, 1992). In the immediate area of the prospect, the host rock is a gneiss. The foliation in the gneiss strikes 311° and dips 82° to the northeast.

The Sun prospect consists of a band of galena and sphalerite, 0.1 feet wide by 11 feet long, that is conformably hosted in gneiss. Located on the western side of the drainage, the band is exposed at the base of a small cliff only a few hundred yards from the lakeshore. The exposure measures approximately 3 feet horizontally and 10 feet vertically.

BLM personnel collected two samples from the Sun prospect. One sample from the sulfide band contained 1,411 ppb gold, 1,245.5 ppm silver, 9.99 percent lead, 7.1 percent zinc, 726.3 ppm cadmium, and 3.54 ppm mercury (Map no. 64.2, sample 389). Investigators took a select sample from a boulder they found in the stream adjacent to the Sun occurrence. The boulder contained pyrite and a small amount of chalcopyrite. It had an elevated copper content of 1,888 ppm (Map no. 64.2, sample 8656). They also took a stream sediment sample from a drainage to the west of the Sun occurrence. The sample contained 71 ppb gold (Map no. 64.1, sample 2807).

#### Conclusions

Although the assay of the vein at the Sun occurrence is quite high, the vein is only 0.1 foot wide. Additional examination of the area might be warranted, but as now known, the prospect is of little economic significance.

# THE ISLANDER

(Plate 1, Map no. 65)

### Location/Access

The Islander prospect lies on the east side of Steamboat Bay, 0.3 miles southeast of Foot Island and 6 miles north of Cape Fanshaw. It is 39 miles northwest of Petersburg and is accessible by boat, float plane, or helicopter. The property occupies a small, low-elevation peninsula that extends westerly a few hundred feet into Steamboat Bay from the mainland. At high tide, the peninsula becomes an island, with its highest point no more than 10 feet above sea level. Some grass and a few small trees grow on the highest part of the island.

#### History

The first record of mineral exploration activity at The Islander prospect is a claim filed by S.A. Wilson in 1952 (Alaska Kardex, 1982). An examination of the property was made by James A. Williams of the Alaska Territorial Department of Mines also in 1952 (Williams, 1952). The BLM's examination of the prospect in 1998 revealed no evidence of mining activity.

Additional prospecting in the area has occurred on the northeast side of Foot Island, half a mile to the northwest of The Islander. Mineralized rock, similar to that at the prospect, was reported by H.T. Olson on Foot Island (Williams, 1952). In 1953 there was also a prospect listed as "Discovery Zinc" in the southeastern corner of Steamboat Bay. The reported location would place it about a quarter of a mile east of The Islander prospect (Alaska Kardex, 1982).

#### **Mineral Assessment**

The country rock at The Islander prospect is a fractured graywacke, which has zones or stringers of dark, bluish gray calcium carbonate cutting through it (Williams, 1952). The carbonate stringers include zones heavily mineralized with sulfides, particularly pyrite and sphalerite. Williams took five samples from the carbonate zones, which measured from 3 to 12 inches in width. The assays of the samples showed from 0.16 to 0.48 oz/ton gold and 1.91 to 7.5 percent zinc (Williams, 1952).

BLM personnel examined the Islander property in 1998. The veins at the site strike from  $055^{\circ}$  to  $095^{\circ}$ , with most from  $085^{\circ}$  to  $095^{\circ}$ . Dips are as little as 24°, but most are more than 50° to the south. The veins with the highest gold values tend to dip very steeply (greater than 79°) to the south or east. As Williams (1952) noted, the veins tend to be short, discontinuous, and narrow (no greater than 1 to 12 inches in width).

BLM personnel collected five samples of mineralized veins at the prospect. A sample from an 11foot-long vein on the western side of the island contained 7,352 ppb gold, 2.5 percent zinc, and anomalously high levels of copper, cadmium, and mercury (Map no. 65, sample 385). A sample from a 19-foot-long vein on the southern side of the island contained 1.077 oz/ton gold, 9.7 percent zinc, over 10,000 ppm arsenic, and anomalously high levels of silver, copper, cadmium, and mercury (Map no. 65, sample 387). Sample 8654 (Map no. 65) had 0.669 oz/ton gold, 8.2 percent zinc, over 10,000 ppm arsenic, and anonymously high levels of silver, copper, cadmium, and mercury. Most of the samples that had anonymously high gold values also had anonymously high arsenic, silver, copper, cadmium, and mercury values.

BLM investigators collected several samples from sulfide-bearing graywacke that hosts the mineralized veins. Sample 8653 across 7.5 feet contained 1,645 ppb gold and 1.5 percent zinc; sample 8652 across 0.45 feet contained 7,584 ppb gold and 8.6 percent zinc.

#### Conclusions

Although the precious-metal content of the veins at The Islander prospect is relatively high, there is insufficient tonnage to make them a likely exploration or development target. However, the veins at the prospect strike generally east-west. So the mainland east of The Islander might provide an opportunity for finding additional occurrences. S.A. Wilson, the original claimant, reportedly examined that area, but to no avail (Williams, 1952).

# CASCADE MINE

(Plate 1, Map no. 66)

# Location/Access

The Cascade Mine is located on the east side of Thomas Bay, a quarter of a mile southeast of Spray Island and half a mile south of the mouth of Cascade Creek. The property is 14 miles northeast of Petersburg and is accessible by boat, float plane, or helicopter. There is a trench located adjacent to the shoreline just above high-tide level. There are also two adits less than 200 feet inland at elevations of 20 and 36 feet. The topography within half a mile of the beach is moderately steep and is covered by vegetation of thick brush and timber typical of Southeast Alaska's rainforest.

#### History

The original discovery date of the Cascade Mine is not known, but records show that the property was held by Colp and Lee of Petersburg in 1920 and for a few years thereafter (Wright, 1945). Sometime before 1921, a vein-reportedly carrying pyrite, arsenopyrite, and minor chalcopyrite, pyrrhotite, and argentiferous galena-was explored by a short tunnel (Berg and Cobb, 1967). The property was restaked by Harry D. Colp, F.R. Porter, and Fred H. McGill in 1944 (Wright, 1945). In 1948 the production of 4 tons of ore yielding 6 ounces of gold and 1 ounce of silver was reported by Don Thomas to the Bureau of Mines (U.S. Bureau of Mines, Mine Production Records).

#### **Mineral Assessment**

The rock units in the Cascade Mine area are mapped as Cretaceous to Tertiary, metamorphosed, bedded, and intrusive rocks. Units include biotite schist, biotite gneiss, and gneissic biotite granodiorite and quartz monzodiorite (Brew and others, 1984). Buddington (1923) describes the rocks hosting the gold-bearing veins at the prospect as hornblende and quartz-mica schists.

The Bureau of Mines made its first examination of the Cascade Mine in 1944 and took two samples for analysis. The Bureau of Mines returned in 1989 to map and sample the claim again. During this examination, investigators observed that the mineralized rock is associated with two individual fault zones that strike 280° and dip 65° to the northeast. An isolated high-grade sample from an opencut yielded 0.22 oz/ton gold (Maas and Redman, 1989).

The rocks hosting the mineralization at the Cascade Mine are predominantly felsic schists. They include garnet-biotite-chlorite schist, quartz-biotite schist, and more silicified schist. The fault zones that concentrate the mineralization are more strongly silicified than the surrounding host rocks and include numerous quartz stringers. Sulfides in the fault zones include pyrite and arsenopyrite. In places the silicified schist also contains bands of fine-grained sulfides, mainly pyrite, that are parallel to the foliation in the schist as well as in crosscutting stringers.

The mineralized rock at the Cascade Mine is controlled by faults, where silicification is accompanied by the introduction of sulfides including pyrite, galena, and arsenopyrite. BLM

investigators collected eight samples from the surface and underground workings at the Cascade Mine. The sample with the highest grade contained 589 ppb gold over 3.5 feet (Map no. 66, sample 2801). The series of eight samples showed a correlation between elevated gold and arsenic values.

# Conclusions

The BLM's examination of the Cascade Mine reaffirmed the conclusions of earlier investigators that there are insufficient grades and tonnages at the property to consider development. To date, similar mineralization is unknown in the Cascade area, so the potential for discovery of an economically significant deposit is considered to be low.

### **BUCK BAR**

(Plate 1, Map nos. 67.1-67.6)

#### Location/Access

The Buck Bar prospect is 20 miles northeast of Wrangell, on the north side of the Stikine River. References do not give an exact location, but descriptions suggest it is between Shakes Slough and the mouth of the Ketili River. In that area, the northern side of the Stikine River is flat and brushy for about a mile north of the river. Access to the area is by boat or float plane. Helicopter access is restricted because the site is within the Stikine-Leconte Wilderness area.

#### History

In 1863 W.P. Blake observed that the Buck Bar area contained fine gold in "coarse river drift" and that some miners had staked claims in the vicinity. The Buck Bar occurrence was supposed to have been discovered in 1861 and to have been the first gold to be profitably mined in Alaska (Brooks, 1923). It is not known how much gold may have been recovered. After 1923 there apparently are no additional references to the Buck Bar prospect in published literature.

#### **Mineral Assessment**

Brooks (1923) specifically refers to the Buck Bar prospect on the lower Stikine River in his description of bar deposits. He goes on to describe bar deposits as a special type of fluviatile placer deposit in which gold is deposited on stream bottoms as a result of eddy currents. These deposits, usually of small volume, consist of very fine gold (Brooks, 1923). Although typically low-grade, some flood deposits can be profitably worked for a short time every year following the annual river flood.

The BLM collected 12 samples at the Buck Bar prospect, 10 of which were within the flood plain of the Stikine River (Map nos. 67.1-67.6, samples 86-89, 249-253, and 2856-58). Three samples were pan concentrates and nine were stream sediment samples. None of the 12 samples had significant gold contents. The highest gold value was 80 ppb (Map no. 67.4, sample 251).

#### Conclusions

The BLM's examination of the Buck Bar area failed to reveal even modest amounts of gold in the river deposits. In explanation, either the water level was too high to expose the bar deposits, the wrong locations were sampled, or the published records are in error. It is also possible that the river's flow patterns have changed over the years and that the bar deposits exploited in 1861 are occurring elsewhere in the river. If the historic Buck Bar occurrence was truly a bar deposit as described by Brooks (1923), its potential for hosting a sizeable deposit is small. The wilderness land status around the Buck Bar prospect also limits the potential for development of occurrences in the area.

# MARY MOOSE

(Plate 1, Map no. 68)

#### Location/Access

The Mary Moose placer prospect is 14 miles north-northeast of Wrangell. It is located near the mouth of Andrew Creek, about half a mile upstream of its confluence with the Stikine River. The area is relatively flat river flood plain with thick brush. It is only about 20 feet above sea level. Access is by boat or float plane. Helicopter access is restricted because the site is within the Stikine-Leconte Wilderness area.

#### History

Little is known about the Mary Moose prospect. A Mine Safety and Health Administration (MSHA) file is the only reference. On August 30, 1979, the prospect was classified by MSHA as permanently abandoned, and all information regarding it was removed from their files (W. W. Wilson, MSHA, written commun., 1999). There has been no known production from the prospect.

#### Mineral Assessment

The BLM carried out an aerial reconnaissance of the Mary Moose placer looking for any evidence of past mining activity. Nothing was detected. Investigators collected four stream sediment samples from the area reported to be the prospect site (Map 68, samples 84-85, 247-248). None of the samples contained significant metal values. The highest gold value was 29 ppb (Map no. 68, sample 248).

#### Conclusions

Because the Mary Moose placer prospect is within the Stikine-LeConte Wilderness, further exploration is not permitted and none seems warranted. There is no obvious physical evidence of previous mining activity in the prospect area.

# ANDREW CREEK

(Plate 1, Map nos. 69.1-69.9)

### Location/Access

Andrew Creek flows into the Stikine River from the south, about 14 miles north-northeast of Wrangell. The Andrew Creek occurrence is located near the head of the South Fork of Andrew Creek, about 8 miles from its mouth, and 12.5 miles northeast of Wrangell. The broad, U-shaped valley of the South Fork of Andrew Creek is typical of many Southeast Alaska valleys; the floor is gently sloping along its length, but steepens at its sides where the surrounding ridges rise to about 3,000 to 4,000 feet. The valley floor is covered with alder brush, stunted conifers, and muskeg grasses. The occurrence is situated within the Stikine-LeConte Wilderness. It is accessible by helicopter, although helicopter access is restricted due to the wilderness status in the area. An alternate means of access would be an arduous hike from the mouth of Andrew Creek on the Stikine River.

#### History

BLM personnel discovered visible gold in a piece of quartz float on the South Fork of Andrew Creek in 1997. They did a follow-up investigation in the area in 1998. The Mary Moose placer claims (Map no. 68) were staked at the mouth of Andrew Creek sometime prior to 1979. However, there is no mention of a lode occurrence farther up the drainage.

#### **Mineral Assessment**

The Coast Range megalineament of Brew and Ford (1978) runs along the South Fork of Andrew Creek (Brew, 1997H). The area is marked by Cretaceous intrusions southwest of the megalineament and Tertiary intrusions to the northeast. Hosting the intrusions are schists and gneisses, which have commonly been migmatized by the intrusions. Metamorphic grade increases to the northeast and reaches amphibolite to upper amphibolite facies in the South Fork area (Brew, 1997H).

The South Fork of Andrew Creek is along strike with the mineralized rocks of Groundhog Basin to the southeast. However, gold in quartz veins is not known in the Groundhog Basin area.

A general reconnaissance examination of the South Fork of Andrew Creek area in 1997 led to the discovery of a small amount of visible gold in quartz from stream float on the southeast side of the creek (0.822 oz/ton gold; Map no. 69.3, sample 146). BLM investigators collected 21 stream sediment samples and 1 pan concentrate sample in 1998 in an attempt to locate the source of the gold. The stream sediment samples contained up to 493 ppb gold (Map no. 69.3, sample 363) and the pan concentrate sample had 1,058 ppb gold (Map no. 69.1, sample 2859). The sample results did not indicate a source area for the gold. In addition to the stream samples, investigators examined drainages above the visible gold sample site. They did not discover any more visible gold nor obviously prospective outcrops. However, they did sample additional quartz float. One sample contained 1,992 ppb gold (Map no. 69.5, sample 2850). Other float samples contained from 137 to 693 ppb gold (Map nos. 69.3-69.5, samples 2849-51, 3750, 3800, 9688-90).

# Conclusions

The potential exists for a lode gold resource in the upper Andrew Creek valley. Not only was visible gold found in a piece of quartz float, but historic placer claims were located near the mouth of the creek. So far, BLM samples have indicated elevated gold values only in a restricted area on the floor of the Andrew Creek valley. This area is within the Stikine-LeConte Wilderness. Additional work in the area might include examination of the margins of the valley, above the area where elevated gold samples were collected–outside the wilderness.

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# **GROUNDHOG BASIN AREA**

### **NORTH SILVER**

(Figure 4, Map nos. 70.1-70.5)

#### Location/Access

The North Silver prospect is located at the northern end of the Groundhog Basin area (Figure 4), about 13 miles east of Wrangell. The topography and vegetation in the area are alpine with glaciers and permanent snowfields to the south and east. Elevations range from 3,000 feet to 4,300 feet. Access is by helicopter.

#### History

During the late 1950's, the Moneta Porcupine Company staked claims and explored in the Groundhog Basin area, but subsequently dropped its claims. With the permission of Moneta Porcupine, two former company prospectors, William Huff and James Fucas, continued work in the area and staked new claims (Berryhill, 1964). William Huff discovered the North Silver prospect in 1963. In 1965 the claims were optioned by the Bunker Hill Mining Co., which drilled 7 holes, ranging in length from 85 to 224 feet, and blasted several pits. The property was dropped at the end of the field season (Bunker Hill Company, 1965). From 1968 to 1970, Humble Oil and Refining Co. optioned the property (Humble Oil and Refining Company, 1970a). Later, El Paso Natural Gas Co. optioned the property from 1971 to 1973 and conducted geophysics and sampling on the western side of the prospect (George and Wyckoff, 1973). AMAX Exploration Inc. optioned the property from 1976 to 1981 (AMAX Exploration Inc., 1981). Five claims were active in the North Silver area in 1999.

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed, Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks in the Groundhog Basin area has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblendebiotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

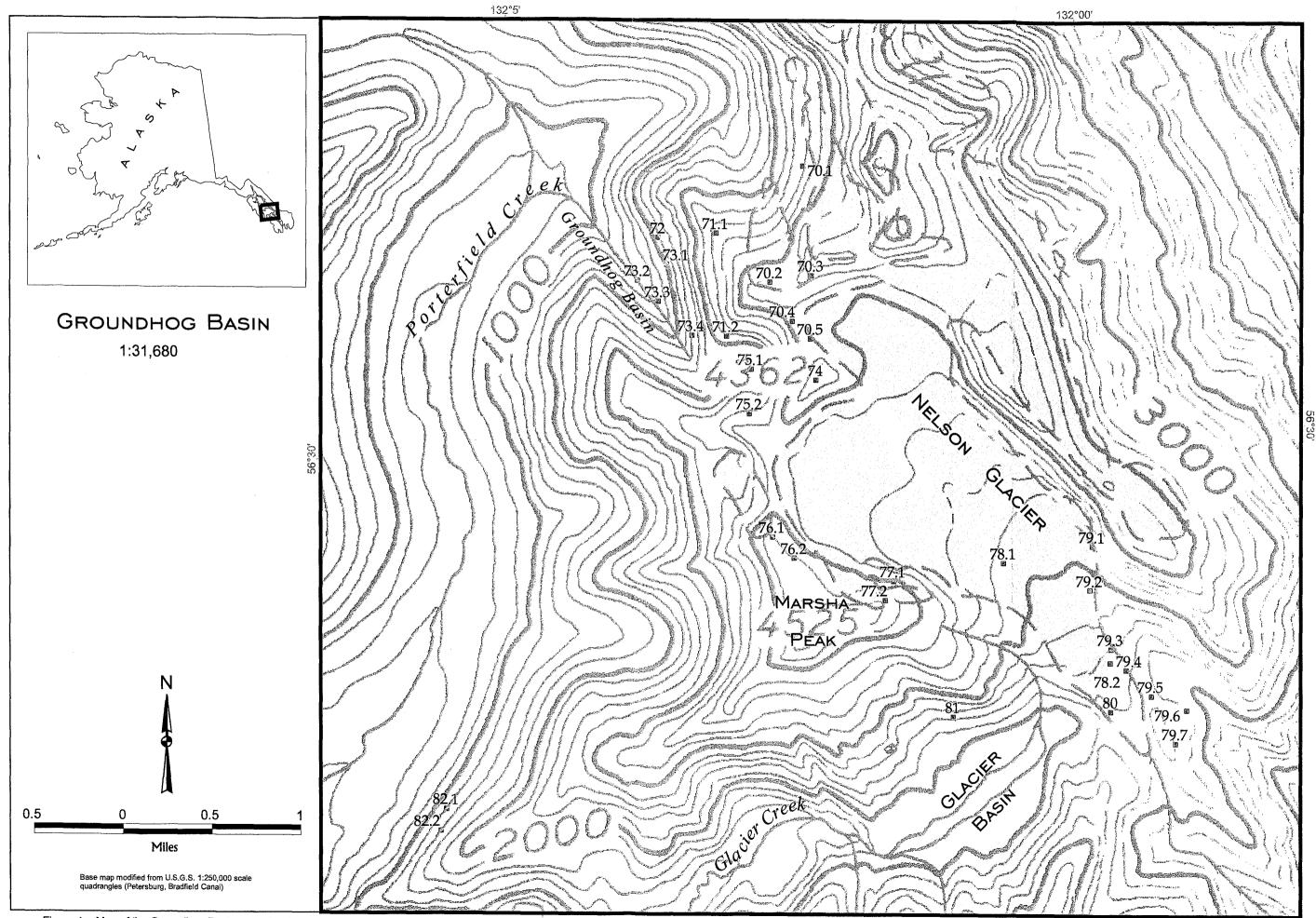


Figure 4. - Map of the Groundhog Basin area showing prospects

132°5'

132°00'

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical.

Polymetallic veins and mineralized zones follow this crosscutting trend and replace small parts of marble beds in the North Silver area.

The BLM's investigation of the North Silver prospect revealed three areas of mineralization. The southernmost is called the Whistlepig adit area. The other two are referred to simply as the west and north areas: the west area is located about 1,000 feet northwest of the Whistlepig adit; and the north area is located 4,000 feet north of the Whistlepig adit.

#### Whistlepig adit area (Figure 4, Map nos. 70.4-70.5):

The Whistlepig adit is located on a southwest-facing cliff at an elevation of 4,050 feet, just below the pass between Nelson Glacier and Groundhog Basin. The adit was likely started during the 1970's to intersect narrow, silver-bearing, galena-quartz veins that are exposed in the cliff above and to the north of the adit. The adit was started, but never completed, and consists of only 20 feet of trench that exposes sheared, iron-stained, silicified gneiss with small vugs of quartz and fluorite. A 3.6-foot sample across the gneiss contained 954 ppm lead, 399 ppm zinc, and 11.9 ppm silver (Map no. 70.4, sample 8694).

The narrow, quartz-sulfide veins exposed in the cliff (above and north of the adit at elevations of 4,150 to 4,200 feet) strike northeasterly and dip steeply. The veins pinch and swell and may extend for up to 50 feet along strike. They are mineralized irregularly and are from 0.2 to 1.0 foot thick. Samples from the veins contained from less than 5 to 4,345 ppb gold, 11.5 ppm to 517.62 oz/ton silver, from 778 ppm to 39.75 percent lead, and from 377 ppm to 11.0 percent zinc (Map nos. 70.4-70.5, samples 438-439, 120-121, 430). These samples were collected near the top and bottom of the cliff. BLM investigators observed old, deteriorated, fixed ropes hanging in the middle of the cliff face where previous workers had presumably sampled the veins. The adit and veins exposed in the vicinity are not mentioned in previous company reports.

#### *West area* (Figure 4, Map nos. 70.2-70.3):

The westernmost area of mineralization is located on a bench about 1,000 feet northwest of the Whistlepig adit at elevations ranging from 4,000 to 4,300 feet. It consists of a crosscutting shear zone up to 10 feet thick that strikes  $020^{\circ}$  to  $040^{\circ}$  and dips from  $50^{\circ}$  to  $89^{\circ}$  to the southeast. This shear zone has a 0.5- to 4-foot-thick mineralized section in its footwall that consists of massive and disseminated sulfides. It is irregular, pinches and swells, and is hosted in schist and gneiss.

Four pits, or cuts, expose the mineralization through soil and turf cover in the west area. The northernmost pit exposes the mineralization where it drops down the northern edge of the bench under a permanent snowfield. In the southernmost pit, located 185 feet from the northernmost, both the mineralization and shear are markedly dissipated. Examination of bedrock exposures

farther to the south failed to reveal the mineralized shear zone. Measured samples across 0.5 to 4.9 feet collected from the three northernmost pits contained from 31.3 ppm to 79.46 oz/ton silver, from 1,795 ppm to 33.47 percent lead, and from 2,734 ppm to 9.8 percent zinc (Map no. 70.2, samples 122, 431-432, 8693, 9584-85). A 4.0-foot sample across the southernmost pit contained 19.7 ppm silver, 1,678 ppm lead, and 1,286 ppm zinc (Map no. 70.2, sample 435).

#### North area (Figure 4, Map no. 70.1):

The north area of mineralization is located 4,000 feet north of the Whistlepig adit at elevations of 3,500 to 3,900 feet. Here crosscutting, northeasterly trending, steeply dipping shears in gneiss and schist host irregular, pinch-and-swell, quartz-sulfide lenses and veins. The veins are up to 0.8 feet thick, and systems of veins can be traced for hundreds of feet. Less than 10 percent of the length of the vein system contains significant mineralization.

Samples collected across the more mineralized parts of the most prominent vein system were 0.2 to 0.8 feet long and contained from 7.45 to 119.32 oz/ton silver, from 4.69 to 48.61 percent lead, and from 2.4 to 3.6 percent zinc (Map no. 70.1, samples 124, 126, 9586-87). A 3.3-foot-long sample across a less mineralized part of the vein system contained 46.6 ppm silver, 2,451 ppm lead, and 5,245 ppm zinc (Map no. 70.1, sample 125).

The vein system described above was drilled by the Bunker Hill Mining Co. in the early 1960's (diamond drill hole [DDH] 23). Assays from the drilling for veins up to 1.0 foot thick revealed from 0.36 to 2.9 oz/ton silver, from 0.0 to 6.71 percent lead, and from 0.4 to 2.2 percent zinc (Bunker Hill Company, 1965).

Two limestone beds, 50 feet apart and up to 20 and 30 feet thick, are located to the east of the veins described above. These beds strike 330°, dip 45° to the east, and can be traced for thousands of feet. The Bunker Hill Co. DDH's 17 to 22 penetrate either one or both of these limestone beds along a strike length of about 1,500 feet (Bunker Hill Company, 1965). Apparently, only a small part of the limestone beds is mineralized. The best mineralized zone in DDH 18 was an 8.5-foot intercept that contained 2.34 oz/ton silver and 0.51 percent lead. In DDH 19, a 0.5-foot section assayed 1.2 oz/ton silver, 0.9 percent lead, and 3.1 percent zinc. In DDH 22, a 0.5-foot section assayed 3.16 oz/ton silver, 10.66 percent lead, and 1.4 percent zinc. DDH's 21 and 17 did not contain significant mineralized intervals (Bunker Hill Company, 1965). The crosscutting shears in the area were probably the conduit for mineralization in the limestone beds.

#### Conclusions

Only small areas within the veins and limestone beds examined by the BLM and private companies at the North Silver prospect are mineralized. The mineralized veins pinch and swell and have irregular values, so are not good candidates for mineral development. The mineralized limestone, as indicated by drilling, is low-grade and discontinuous. However, vein sample values up to 4,345 ppb gold, 517.62 oz/ton silver, 48.61 percent lead, and 11.0 percent zinc (at higher-grade locations) encourage exploration of the area for more continuous mineralization. Whereas the

veins appear to be too narrow to encourage exploration, the size and extent of the limestone beds present an attractive exploration target. The limestone is apparently very reactive to the mineralizing solutions that deposited silver, lead, and zinc along the veins. This has been demonstrated by the mineralized rock intersected by drilling. Areas where the limestone is sufficiently sheared to form a conduit for mineralizing solutions may prove to be fruitful exploration targets.

# NORTHEAST CLIFFS

(Figure 4, Map nos. 71.1-71.2)

## Location/Access

The Northeast Cliffs prospect is located near the northern end of the Groundhog Basin area, about 13 miles east of Wrangell. The area is alpine and cliffy and ranges in elevation from 3,100 to 4,200 feet. Access is by helicopter to the north or south of the prospect and then by foot to the mineralized outcrops.

#### History

The Northeast Cliffs prospect was investigated by AMAX Exploration Inc. between 1976 and 1981 (AMAX Exploration Inc., 1981). The claims are currently inactive.

### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso Natural Gas Co. indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding. The rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. The mineralization at the Northeast Cliffs is situated along the bedding plane shears.

The Northeast Cliffs prospect consists of a 0.5-mile-long, west-facing cliff made up of gneiss, schist, and rhyolite. Old, frayed, fixed ropes attest to previous examinations in the area. The BLM's investigation of the prospect was confined to the northern and southern ends of the cliff. Investigators found iron-stained, silicified gneiss and rhyolite that contained disseminated pyrite, chalcopyrite, galena, and sphalerite. They collected four samples up to 2 feet long from the most

mineralized areas. The samples contained from 112 to 980 ppm copper and from 1,569 to 9,559 ppm zinc (Map nos. 71.1-71.2, samples 419, 427, 418, 2834).

AMAX collected 40 samples from the Northeast Cliffs area. They contained up to 840 ppm zinc and 13 ppm silver (AMAX Exploration Inc., 1981; Hamilton, 1982a)

## Conclusions

The BLM and AMAX's sampling of the Northeast Cliffs prospect failed to reveal significant mineralization.

# AMAX MOLYBDENUM

(Figure 4, Map no. 72)

## Location/Access

The AMAX Molybdenum prospect is located on the northern side of Groundhog Basin, about 13 miles east of Wrangell. The area is predominated by steep cliffs and alpine vegetation; however, the lower elevations are brushy. Elevations range from 2,000 to 4,000 feet. Access is by helicopter and by climbing steep, loose rock. The prospect is centered on a granite stock. A small part of the western side of the stock and adjacent rocks is covered by patented mining claims (MS1580). The remainder of the area is Federal land that is open to mineral entry. The claims that were staked to cover the molybdenum occurrence are not currently active.

#### History

Molybdenum in the Groundhog Basin area was first reported by Smith (1930) and briefly described by Gault (1953). AMAX Exploration Inc. (AMAX) was the first company to drill the Groundhog Basin vicinity for porphyry molybdenum deposits. Between 1976 and 1981, AMAX drilled four holes, ranging in length from 506 to 2,727 feet, in the vicinity of a biotite granite stock (AMAX Exploration Inc., 1979[?], 1981).

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

The BLM's investigation of the AMAX Molybdenum prospect revealed coatings of quartz and molybdenite along fractures in biotite granite and gneiss (Map no. 72, sample 144). Mapping by AMAX indicates the biotite granite stock forms a 1,000- by 2,000-foot outcrop. Drill logs indicate that the molybdenite is found along fractures in granite (up to two fractures per foot) and to a lesser extent along bedding plane fractures in gneiss and schist. The molybdenite is associated with quartz and fluorite stringers and vugs, sericite, and chlorite alteration and small

amounts of tungsten (Hamilton, 1982b). Sixteen AMAX surface samples collected from the northwest corner of the stock and from 1,000 feet into the surrounding volcanic and sedimentary rocks contained from 6 to 190 ppm molybdenum. Three AMAX samples collected south of the northwest corner of the stock contained from 250 to 5,000 ppm molybdenum (details regarding sample type and length were not available). Six AMAX samples collected over a distance of 600 feet from the southeast part of the stock and from adjacent volcanic and sedimentary rocks contained from 6 to 65 ppm molybdenum (AMAX Exploration Inc., 1981; Hamilton, 1982a).

The four AMAX drill holes were collared to the northwest, west, and south of the granite stock. All were angled toward the stock. The northwest hole reached a depth of 2,454 feet and bottomed in the stock. The best 100 feet from this hole averaged 25 ppm molybdenum. The west hole reached a depth of 2,072 feet, bottomed in the stock, and had a best 100 feet that averaged 28 ppm molybdenum. Two holes were drilled from the south. One, in gneiss its entire length, reached a depth of 506 feet and contained no significant molybdenum values. The other reached a depth of 2,727 feet, bottomed in the stock and contained from 55 to 60 ppm molybdenum from a depth of 2,500 to 2,727 feet (AMAX Exploration Inc., 1981; Hamilton, 1982b).

#### Conclusions

The molybdenum mineralization revealed by surface sampling and drilling in the intrusive and adjacent metamorphic rock is too low-grade to be of economic significance. Similar zinnwaldite "tin" granite intrusives may exist elsewhere in the Groundhog Basin area. They would be considered exploration targets for porphyry molybdenum deposits.

# **GROUNDHOG BASIN**

(Figure 4, Map nos. 73.1-73.4)

## Location/Access

The Groundhog Basin deposit is located at the northwest end of the Groundhog Basin area, about 13 miles east of Wrangell. The area consists of a deep gorge that trends north-northwest, with steep, loose rock cliffs to the east and west and a cirque at its southern end. Elevations range from 1,450 to 3,600 feet, with thick brush predominating at the lower elevations and bare rock at the top. Avalanche snow accumulates in the floor of the gorge and commonly covers the rocks until late in the season. Access to the prospect is via helicopter to a landing spot in the gorge. The area is covered by four patented claims.

#### History

The Groundhog Basin deposit was discovered in 1904. Between 1915 and 1917, Don Alaska explored the deposit, which by 1917, had four adits started on the prospect (Buddington, 1921). In 1918 the Alaska Treadwell Gold Co. examined the property (Wernecke, 1918). Buddington investigated it in 1921 for the USGS (Buddington, 1923). In 1930 a patent (MS 1580) was issued for four claims on the property.

In 1942 Ventures Ltd. optioned the property and by 1943 had sampled it and drilled 3 holes with depths of 107 to 335 feet. A resource estimate of 116,000 tons at an average grade of 8.3 percent zinc, 2.5 percent lead, and 2 oz/ton silver for a 4-foot average width was determined (Smith, 1943). In 1943 the USGS mapped the area and estimated several hundred thousand tons of solid ore at an average grade of 8 percent zinc, 1.5 percent lead, and 1.5 oz/ton silver and several hundred thousand tons of disseminated ore at an average grade of 2.5 percent zinc and 1.0 percent lead (Gault, 1953). The Bureau of Mines also examined the property in 1943 and estimated 120,000 indicated tons and 350,000 inferred tons. Both of these estimates were based on an average grade of 8.3 percent zinc, 2.5 percent lead, and 2.0 oz/ton silver with an average width of 4 feet (Muir, 1943). A 1944 War Minerals report estimated the indicated tonnage at 124,000 tons with an average grade of 8 percent zinc, 2 percent lead, and 2 oz/ton silver at an average width of 4 feet (U.S. Bureau of Mines, 1944).

In 1965 the Bunker Hill Mining Co. optioned the Groundhog Basin property. The area optioned included 294 claims, known as the Whistlepig claims that cover areas to the north, east, and south of the Groundhog Basin deposit. The company collected surface samples and drilled 24 holes with lengths of 25 to 350 feet. No new reserves were reported as a result of this work, and the property was dropped at the end of the 1965 field season (Bunker Hill Company, 1965).

Between 1968 and 1981, Humble Oil and Refining Co., El Paso Natural Gas Co., and AMAX Exploration Inc. optioned the Whistlepig-Groundhog Basin area. These companies concentrated their mapping, sampling, and drilling to the north, east, and south of the Groundhog Basin deposit. (Humble Oil and Refining Company, 1970a; George and Wyckoff, 1973; Hamilton, 1982).

In 1983 Houston Oil collected 19 channel samples of massive sulfide ore from the Groundhog Basin deposit. The 19 samples averaged 7.3 percent zinc, 2.2 percent lead, 0.17 percent copper, 0.39 percent tin, and 1.91 oz/ton silver with an average width of 3.25 feet (Oliver, 1994). This is the only reported tin average from the Groundhog Basin deposit.

In 1988 Newberry and Brew (1989) examined core and previously published company data and reported on the classification of the Groundhog Basin deposit. In 1992 Kennecott Exploration Co. briefly examined the property and evaluated earlier company reports (Wakeman, 1992).

## **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or. lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical.

The Groundhog Basin deposit is situated in the western part of the belt of metamorphic rocks, adjacent to the granodiorite, which has an eastern contact that approximately follows the regional north-northwest grain of the regional rocks. Immediately north of the Groundhog Basin deposit, the 16.3-million-year-old biotite granite stock intrudes the metamorphic belt. In places sulfides replace the metamorphic rocks where they have been metamorphosed to pyroxene granulite. These sulfide zones are tabular, follow the original bedding in the rocks (330°), and have been called "ore beds" by previous workers (e.g., Gault, 1953). Rhyolite sills occur adjacent to the ore beds.

Four ore beds have been delineated in Groundhog Basin. They are separated by 15 to 80 feet, with rhyolite sills, schist, and gneiss in between. The rhyolite sills become dikes and cross the ore beds at one point. Disseminated and solid ore have been identified in the beds. The solid ore, mainly confined to the northern (lower-elevation) parts of the beds, consists predominately of

massive bands of sulfides. The disseminated ore, mainly found in the southern (higher-elevation) parts of the beds, consists of disseminations, pods, and discontinuous bands of sulfides. The sulfides are pyrrhotite, pyrite, sphalerite, galena, and chalcopyrite with a gangue of quartz, hornblende, pyroxene, epidote, and garnet. Cassiterite is also found in the ore beds (Smith, 1943; U.S. Bureau of Mines, 1944; Berryhill, 1964).

The westernmost (No. 1, lowest stratigraphically) ore bed has been traced for 4,300 feet horizontally and 1,900 feet vertically (Bunker Hill Company, 1965). Gault (1953) reports that it contains zinc along its entire length. The next highest ore bed stratigraphically (No. 2) can only be traced a short distance. Sampling and mapping indicate that these two beds (Nos. 1 and 2) contain mostly disseminated sulfides (where mineralized) and are not sufficiently mineralized to be considered important economically.

The two easternmost ore beds (Nos. 3 and 4) can be traced for 4,800 feet horizontally and 2,100 feet vertically (Bunker Hill Company, 1965). Surface sampling, three adits, and three diamond drill holes have defined a solid ore resource that is 250 feet by 705 feet in the No. 4 ore bed and 250 feet by 405 feet in the No. 3 over an average width of 4 feet. This deposit contains 116,000 indicated tons (Smith, 1943) at an average grade of 8 percent zinc, 2.5 percent lead, 2 oz/ton silver, and 0.39 percent tin (Muir, 1943; Oliver, 1984). Both Muir (1943) and Oliver (1984) report that the solid ore extends 1,200 feet farther to the northwest, where talus now covers the bedrock. If this is true, an additional 350,000 tons can be inferred at the same grade (Muir, 1943). These are indicated and inferred resources and do not constitute "ore" in the economic sense.

The Bunker Hill Co. sampled and drilled 23 shallow holes both in the four ore beds and in their general vicinity in 1965. This work tested the near surface of the ore beds through a horizontal distance of 4,800 feet and a vertical distance of 2,100 feet. Bunker Hill did not report new resource figures as a result of its efforts. Most of its work indicated grades well below the solid ore grades presented above (Bunker Hill Company, 1965).

The BLM's investigation of the Groundhog Basin deposit was mostly confined to taking grab samples from adits and dumps and tracing mineralized zones. Four prospect adits are located at elevations of 1,600 feet (No. 1), 1,850 feet (No. 2), 2,050 feet (No. 3), and 2,130 feet (No. 4). The No. 1 adit is 17 feet long and open. It exposes the No. 1 ore bed. The No. 2 adit is 246 feet long and open. It exposes the Nos. 2, 3, and 4 ore beds. The No. 3 adit is located in the middle of a cliff and was not examined because of the precipitous surrounding ground. Its portal appears to be open. The No. 4 adit is 14 feet long and is open. It exposes the No. 4 ore bed. Samples from the adits and dumps contained up to 6.4 oz/ton silver, 3,400 ppm copper, 10.57 percent lead, 9.1 percent zinc, and 6,115 ppm tin (Map nos. 73.2-73.4, samples 98-100, 264-265, 2610-11).

## Conclusions

The Groundhog Basin deposit, as it is currently known, is too narrow and the tonnage is too small to be considered an attractive exploration target. The replacement nature of the ore beds, proximity of the intrusive to the mineralized zones, and mineralogy of the Groundhog Basin deposit indicate that the most suitable deposit classification is polymetallic replacement. Typical polymetallic replacement deposits contain about 1.8 million tons, and the largest deposits are between 14 and 90 million tons (Cox and Singer, 1986). To date, exploration of the Groundhog Basin deposit has been near the surface. Exploration of the deposit to a greater depth may reveal an attractive development target.

# SOUTH SILVER

(Figure 4, Map no. 74)

## Location/Access

The South Silver prospect is located near the northern end of the Groundhog Basin area, about 13 miles east of Wrangell. The area is alpine. Elevations range from 3,900 feet to 4,362 feet at the summit of a peak in the area. Access is by helicopter.

#### History

The South Silver prospect was first drilled and sampled by El Paso Natural Gas Co. between 1971 and 1973. The claims are not currently active.

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. The mineralized rock at the South Silver prospect follows both the bedding plane and crosscutting shears.

The BLM's investigation of the South Silver prospect revealed a quartz vein/stringer zone up to 10 feet thick located near the summit of a 4,362-foot peak. The vein/stringer zone follows shears in the gneiss that are approximately parallel to foliation. Rhyolite sills and schist along with the gneiss form the country rock in the area. BLM investigators collected four samples from the mineralized zone (Map no. 74, samples 428, 8690-92). Sample 8691 contained 63.9 ppm silver and 1,417 ppm zinc. Sample 8690 contained 1,089 ppm tin.

El Paso sampled along a line that extended from near the summit of the 4,362-foot peak in a south-southwesterly direction for 1,900 feet. The company collected over 200 samples along this line. The six best samples contained from 840 to 1,655 ppm zinc and from 320 to 2,720 ppm lead. These were from 5 to 10 feet long. El Paso collared a 149-foot-deep, inclined drill hole near the summit of the 4,362-foot peak that angled south-southwest. A 32-foot intercept consisted of rhyolite and granulite with sphalerite- and galena-bearing quartz stringers and averaged 0.7 percent zinc, 1.0 percent lead, and 0.3 oz/ton silver (George and Wyckoff, 1973).

## Conclusions

Drilling and sampling of the South Silver prospect failed to reveal significant mineralized rock.

## **COPPER ZONE**

(Figure 4, Map nos. 75.1-75.2)

## Location/Access

The Copper Zone prospect is located on the north-facing wall of a cirque at the head of Groundhog Basin, about 13 miles east of Wrangell. The area, above tree line with permanent snowfields, ranges in elevation from 3,000 to 4,000 feet. Access is by helicopter via a helipad at 3,600 feet elevation. The land in the area is Federal land and open to mineral entry.

### History

The first reported work on the Copper Zone was by El Paso Natural Gas Co. During 1972 the company carried out a geophysical survey (EM), drilled 9 holes, and collected 1,044 rock chip samples (George and Wyckoff, 1973). There are currently no active claims in the area.

## **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

The BLM's investigation of the Copper Zone revealed rhyolite sills up to 60 feet thick that generally follow the foliation in the gneiss and schist. Fractures that are parallel to and crosscut (trend to the northeast) the foliation host disseminated chalcopyrite. Rarely, lenses and bands of massive chalcopyrite and pyrrhotite up to 0.4 feet thick occupy the fractures. Chip samples up to 0.7 feet long across the better-mineralized lenses and bands contained up to 4,580 ppb gold, 19.65 oz/ton silver, 8.1 percent copper, 1.71 percent lead, 2.7 percent zinc, and 1,728 ppm tin (Map nos.75.1-75.2, samples 131, 133, 9596).

El Paso's 1,044 rock chip samples from the Copper Zone area delineate a 125- by 160-foot zone that averages 0.11 percent copper. Lower-grade samples define an anomalous strike length of

about 500 feet. Sampling to the southwest of the known mineralized area indicate the zone is not continuous in that direction (George and Wyckoff, 1973).

The 9 holes that El Paso drilled range in length from 58 to 442 feet, in the Copper Zone area. One hole penetrated the northwestern corner of the 125- by 160-foot zone and averaged 0.11 percent copper over a length of 70 feet. This 70-foot intercept also contained from 135 to 6,650 ppm zinc, from 2 to 66 ppm silver, and from 19 to 53 ppm molybdenum. The remaining 8 holes were collared up to 400 feet north, 1,500 east, and 1,500 feet southeast of the above hole. All failed to intersect significantly mineralized rock (George and Wyckoff, 1973).

### Conclusions

The copper mineralization revealed by surface sampling and drilling in the rhyolite, schist, and gneiss of the Copper Zone is too small and too low-grade to be an attractive development target.
If areas down dip and along strike can be detected that are more fractured and that have a more reactive host rock, they may prove to be better exploration targets.

# NORTH MARSHA PEAK

(Figure 4, Map nos. 76.1-76.2)

## Location/Access

The North Marsha Peak prospect is located on the north ridge of Marsha Peak, about 13 miles east of Wrangell. The area is alpine and ranges in elevation from 4,000 to 4,400 feet. The Nelson Glacier is immediately to the east. Access is by helicopter.

#### History

In 1943 the USGS mapped the North Marsha Peak area (Gault, 1953). In 1965 this prospect was optioned by the Bunker Hill Mining Co. The property was dropped at the end of the field season in 1965 (Bunker Hill Company, 1965). Between 1968 and 1970, Humble Oil and Refining Co. optioned the property and drilled two holes to the east of it through the Nelson Glacier ice (Humble Oil and Refining Company, 1970a, 1970b). El Paso Natural Gas Co. optioned the property from 1971 to 1973 and conducted mapping and sampling. The company drilled three holes with lengths ranging from 116 to 230 feet (George and Wyckoff, 1973). AMAX Exploration Inc. optioned the property from 1976 to 1981 (Hamilton, 1982). In 1992 Kennecott Exploration briefly examined the property and the El Paso reports (Wakeman, 1992). No claims in the area are currently active.

### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about  $025^{\circ}$  (range  $005^{\circ}$  to  $030^{\circ}$ ) and dips  $45^{\circ}$  east to vertical. Polymetallic mineralized zones follow both the bedding plane and crosscutting trends in the North Marsha Peak area.

BLM work at the North Marsha Peak prospect was confined to a brief investigation of the ridge crest at elevations from 4,300 to 4,400 feet and did not include the eastern side of the ridge near the glacier. Samples up to 2.4 feet long of the more strongly mineralized rock from a 10-footwide, silicified shear zone contained up to 5,661 ppb gold, 8.8 oz/ton silver, 1.7 percent copper, 1,144 ppm lead, and 14.5 percent zinc (Map nos.76.1-76.2, samples 440, 2642-43, 8697-98).

El Paso collected 228 surface samples, blasted three trenches, and drilled three holes between the elevations of 4,000 feet at the western edge of the Nelson Glacier and 4,400 feet on the north side of Marsha peak. The exploration targeted two bedding plane shear zones that are separated by 750 feet of gneiss and rhyolite sills. These zones strike generally to the north and dip about 50° to the east (George and Wyckoff, 1973).

The westernmost shear is from 4 to 12 feet wide and can be traced for 1,100 feet along strike. It is covered to the north by the Nelson Glacier. Samples from this zone indicate an average grade of 1.5 oz/ton silver, 0.3 percent copper, 0.22 percent lead, and 0.58 percent zinc (George and Wyckoff, 1973).

The easternmost shear is about 4 feet thick and can be traced for 600 feet along strike to the north where it is covered by the Nelson Glacier. Sampling of select thin veinlets from more mineralized parts of the shear gave values up to 20.7 oz/ton silver, 70 percent lead, and 22 percent zinc (George and Wyckoff, 1973).

Samples collected in the vicinity of the shear zones indicate a 15-foot section of gneiss that averages 1.70 oz/ton silver, 0.22 percent copper, 0.76 percent lead, and 6.02 percent zinc (George and Wyckoff, 1973).

Three drill holes were collared in the North Marsha Peak vicinity. One hole, drilled parallel to fracturing in the country rock, averaged 1.1 percent zinc and 0.25 percent lead along its entire 116-foot length. The second cut a 13-foot zone that averaged 0.87 oz/ton silver, 0.08 percent copper, 0.6 percent lead, and 4.31 percent zinc. The third hole failed to cut significant mineralized rock (George and Wyckoff, 1973).

### Conclusions

As exposed by sampling and drilling, the North Marsha Peak mineralized shear zones are too narrow and low-grade to constitute an exploration target.

# EAST MARSHA PEAK

(Figure 4, Map nos. 77.1-77.2)

## Location/Access

The East Marsha Peak prospect is located on the northeastern slope of Marsha Peak, about 13 miles east of Wrangell. The area is alpine with permanent snow fields, glaciers, and steep cliffs. Elevations range from 3,500 to 4,500 feet, and snow covers the prospect until late in the season. Access to the prospect is via helicopter to a rocky, uneven landing site east of the prospect's trenches at an elevation of about 4,000 feet.

Qar.

#### History

The East Marsha Peak prospect was first mapped and sampled by El Paso Natural Gas Co. During 1972 three trenches, with lengths from 20 to 60 feet, were cut between the elevations of 3,975 and 4,100 feet. El Paso collected 48 samples from the trenches and at least 26 more from the vicinity of the prospect (George and Wyckoff, 1973). They also flew a multilevel, helium magnetometer survey over the Whistlepig claim area (which included the East Marsha Peak prospect) in December 1972 (Quigley, 1973). Watts, Griffis, and McOuatt (WGM) Inc. revised previous El Paso maps of the East Marsha Peak prospect area in 1976 (WGM, 1976). In 1992 Kennecott Exploration briefly examined the property and the El Paso reports (Wakeman, 1992). The claims are not currently active.

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical.

Mineralizing solutions that followed the crosscutting trend formed the East Marsha Peak deposit, which is made up of the "main" and "secondary" shear zones.

#### Main Shear Zone

The main East Marsha Peak shear consists of a crosscutting shear zone that strikes northnortheast to northeast, dips 50° to 75° southeast, and extends from near the 4,525-foot-elevation summit of East Marsha Peak down the northeastern slope of the peak and beneath the Nelson Glacier at an elevation of 3,500 feet. Between the summit of East Marsha Peak and Nelson Glacier, the shear zone extends for 2,000 feet along strike. The shear zone is hosted in northwest-trending gneiss and varies from a width of 30 feet near the summit to 40 feet at the El Paso trenches between 3,975 and 4,100 feet elevation. The hanging wall of the shear zone is highly silicified with vugs containing quartz and fluorite. Sphalerite, galena, chalcopyrite, and pyrrhotite form masses and disseminations within the gneiss breccia and gouge. Mineralized rock is found along a network of fractures that penetrate the gneiss for up to 40 feet from the main silicified shear (George and Wyckoff, 1973).

The BLM's examination of the main East Marsha Peak shear zone revealed three trenches at elevations of 3,975, 4,075, and 4,100 feet that test the shear zone for a distance of 162 feet along strike and through a vertical distance of 125 feet. The trenches are within the shear zone. They range in length from 20 to 60 feet. (These workings do not exactly conform to the El Paso map, dated September 26, 1972, of the two trenches at elevations of 4,075 and 4,100 feet. Additional work accomplished by El Paso in October 1972 is not shown on the map [George and Wyckoff, 1973].) The hanging wall and footwall limits of the mineralization are irregular and difficult to delineate.

The BLM collected 16 samples from the 4,100-foot and 4,075-foot-elevation trenches and the immediate vicinity (Map no. 77.1, samples 441-445, 451-453, 8699-702, 8704-07). The samples indicate pervasive zinc-lead mineralization. Samples from 0.5 to 11 feet long contained from 119 ppm to 2.42 percent lead and from 2,443 to 27.1 percent zinc. These samples also contained up to 78.7 ppm silver, 7,260 ppm copper, 288 ppm molybdenum, and 738 ppm tin. El Paso's sampling of the same trenches gave similar results. In the 4,075-foot-elevation trench, El Paso estimates a zone 20 to 30 feet thick that averages 3.19 percent zinc, 1.67 percent lead, and 1.99 oz/ton silver. In the 4,100-foot-elevation trench, El Paso estimates a zone 13 feet thick that averages 1.45 percent zinc, 2.75 percent lead, and 1.23 oz/ton silver with an additional 18 feet that averages 1.79 percent zinc and is only slightly anomalous in lead and silver (George and Wyckoff, 1973).

The BLM collected five samples from the 3,975-foot-elevation trench, located 140 feet northeast and along strike from the 4,075-foot-elevation trench (Map no. 77.1, samples 446-447, 449-450, 8703). The samples indicate a mineralized zone about 20 feet thick. A 6-foot sample across part of the more mineralized rock contained 2.4 percent zinc and 11.1 ppm silver (Map no.77.1, sample 450). A select sample from the trench contained 14.2 percent zinc, 7,169 ppm copper,

2,483 ppm tin, and 139.3 ppm silver (Map no. 77.1, sample 447). Steep cliffs and occasional rock fall precluded access to the zone between 3,975 feet and the glacier at 3,500 feet.

Above an elevation of 4,100 feet (i.e., to the southwest), the shear zone is covered by ice, but is exposed again near the summit of East Marsha Peak (4,525 feet elevation). Near the summit, the zone is about 30 feet thick and consists of vuggy, sheared quartz and brecciated gneiss. Sulfide mineralization is sparse. Two 0.3-feet-long samples collected after a brief examination of the zone for sulfides, contained from 6.8 to 12.9 ppm silver, from 518 to 655 ppm copper, from 932 to 3,980 ppm lead, and from 936 to 7,157 ppm zinc (Map no. 77.2, samples 134-135).

An aerial, multilevel, helium magnetometer survey was carried out across the East Marsha Peak shear zone for El Paso in December 1972. It traces the zone to the east-northeast, under and to the other side of the Nelson Glacier. Quigley (1973) suggests that the south side of the shear zone is anomalous and a target for mineral exploration.

#### Secondary Shear Zone

A secondary mineralized shear zone is located west of the main East Marsha Peak shear zone described above. The BLM's examination revealed a 30-foot trench at an elevation of 4,075 feet that exposes a 20-foot-wide shear zone, which trends to the north and dips 75° to the east. At 4,075 feet, it is located 70 feet west of the main shear and is similar to it. A 4-foot-thick basalt dike intrudes along the center of the shear. A 2-foot sample collected from the most mineralized part of the shear contained 49.6 ppm silver, 3.47 percent lead, and 16.1 percent zinc (Map no. 77.1, sample 448). El Paso's sampling of the 4,075-foot-elevation trench indicated a 13-foot zone that averaged 1.35 oz/ton silver, 1.60 percent lead, 3.83 percent zinc, and 0.08 percent copper (George and Wyckoff, 1973). To the south, the shear zone is covered by ice, and to the north, it is only intermittently mineralized. About 150 feet north of the trench, a 5-foot-long sample of the shear contained 4.24 percent zinc (George and Wyckoff, 1973).

El Paso sampled along two grid lines each about 300 feet long; one was aligned northwestsoutheast, starting near the 4,100-foot-elevation trench, and the other was aligned northeastsouthwest, starting at the northwest end of the first line. The grid lines are to the northwest of the East Marsha Peak shear zone. They cover the secondary shear zone described above. Over lengths of 10 to 35 feet, El Paso's samples averaged from 0.15 to 4.05 percent zinc. One 5-footlong sample located between the two shear zones contained 23.1 percent zinc (WGM, 1976; George and Wyckoff, 1973).

#### Conclusions

The replacement nature of the East Marsha Peak shear zone mineralization suggests that the most suitable deposit classification is polymetallic replacement. Typical polymetallic replacement deposits contain about 1.8 million tons, and the largest deposits are between 14 and 90 million tons (Cox and Singer, 1986). The East Marsha Peak shear zone, as it is currently understood, has the width and potential extent to make it an attractive exploration target. To date, exploration of

the East Marsha Peak shear zone has been limited to the surface. Exploration of this shear zone by drilling along strike to the southwest and to the northeast under the Nelson Glacier may reveal an attractive development target.

# NELSON GLACIER

(Figure 4, Map nos. 78.1-78.2)

## Location/Access

The Nelson Glacier is located about 14 miles east of Wrangell. It is flanked on the north by the North Silver prospect, on the west by the AMAX Molybdenum, Copper Zone, Groundhog Basin, North Marsha Peak, East Marsha Peak, and Glacier Basin prospects, and on the southeast by the Huff prospect (Figure 4). Ranging in elevation from 2,200 to over 4,000 feet, the glacier is 3 miles long and up to 1 mile wide. The area is alpine, with cliffs and mountains on the east and west sides of the glacier. Marsha Peak and East Marsha Peak dominate the west side of the glacier. Access is by helicopter.

#### History

During the late 1950's, Moneta Porcupine Company explored the Groundhog Basin area, but subsequently dropped its claims. With the permission of Moneta Porcupine, two former company prospectors, William Huff and James Fucas, continued work in the area and staked new claims (Berryhill, 1964). The Nelson Glacier was covered by a claim group that was optioned by a number of companies from 1965 to 1981. In 1965 the claims were optioned by the Bunker Hill Mining Co. The property was dropped at the end of the field season in 1965 (Bunker Hill Company, 1965). Between 1968 and 1970, Humble Oil and Refining Co. optioned the property and drilled two holes through the Nelson Glacier (Humble Oil and Refining Company, 1970a, 1970b). El Paso Natural Gas Co. optioned the claims from 1971 to 1973 and carried out geophysical surveys over the glacier (George and Wyckoff, 1973; Quigley, 1973). AMAX Exploration Inc. optioned the claims from 1976 to 1981 (Hamilton, 1982). In 1992 Kennecott Exploration reported on the mineral potential under the Nelson Glacier (Wakeman, 1992). In 1999 the block of claims that covered the Nelson Glacier were inactive except for five at the North Silver prospect.

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. Polymetallic mineralized zones follow both the bedding plane and crosscutting trends. Both granulite and marble beds are replaced by polymetallic sulfides in the Groundhog Basin area.

A crude metal zonation is evident in the 1.5-mile-wide metamorphic belt of rocks in the Groundhog Basin area. Located immediately west of the glacier is the Copper Zone where copper predominates. Farther to the west, at the Groundhog Basin, North Marsha Peak, East Marsha Peak, and Glacier Basin prospects, zinc predominates. To the northeast, at the North Silver prospect, silver/lead predominates. And to the southwest, at the Huff prospect, lead predominates. Newberry and Brew (1989) report tin zonation centered around the 16.3-million-year-old biotite granite stock northeast of Groundhog Basin.

The Nelson Glacier covers up to two-thirds of the Groundhog Basin area. Mineralized zones from the North Marsha Peak, East Marsha Peak, and the Huff prospects can be traced under the glacier. Marble beds up to 30 feet thick trend under the toe of the glacier and are exposed 2.5 miles to the north-northwest at the head of the glacier. Farther to the north, these beds are mineralized at the North Silver prospect. Predominantly lead minerals replace the marble beds at the Huff and North Silver prospects. Crosscutting shears are the conduit for the lead-mineralizing fluids. Some of the shears have high-grade silver contents as well, with up to 228.4 oz/ton at the Huff prospect (Map no. 79.2, sample 96) and up to 517.62 oz/ton at the North Silver prospect (Map no. 70.4, sample 121).

To test the continuity of the North Marsha Peak mineralization under the Nelson Glacier to the northeast, Humble Oil drilled two holes through the ice. These holes were located 1,200 feet from the western edge of the glacier, northeast of the North Marsha Peak prospect. Both holes were vertical and over 1,700 feet deep. One penetrated 491 feet of ice and the other, 621 feet before encountering rock. Both holes were predominantly in gneiss, and neither encountered significant mineralized rock. The best mineralized zone averaged 1.7 percent zinc, 0.4 percent lead, and 0.5 oz/ton silver across 10 feet (Humble Oil and Refining Company, 1970a, 1970b).

BLM investigators found massive sulfide float at the toe of the Nelson Glacier, located at about 2,200 feet elevation, that was apparently coming from under the ice. Similar float was found at a nunatak, at an elevation of 3,200 feet. Samples from this float contained up to 8.43 oz/ton silver, 1.5 percent copper, 8.21 percent lead, 30.0 percent zinc, and 904 ppm tin (Map nos. 78.1-78.2, . samples 117, 119, 129). Similar mineralized float was reported by a Kennecott geologist in 1991 (Wakeman, 1992).

An aerial, multilevel, helium magnetometer survey was carried out in the Groundhog Basin area in December 1972 for El Paso in order to evaluate the potential for mineralization under the Nelson Glacier. The magnetometer survey traced the East Marsha Peak shear zone east-northeast under the glacier and detected a north-south system of parallel shears intersecting the East Marsha Peak shear under the ice (Quigley, 1973).

#### Conclusions

The area under the Nelson Glacier is the least-explored part of the Groundhog Basin area. The intersection of mineralized east-northeast and north-south shear zones under the glacier and the presence of marble beds that also underlie the glacier make this an exploration target for zinc, lead, and silver replacement deposits.

## HUFF

(Figure 4, Map nos. 79.1-79.7)

## Location/Access

The Huff prospect is located on the east side of Nelson Glacier, near its toe, about 14 miles east of Wrangell. The area is alpine and is partly glaciated. Elevations range from 2,300 to 4,300 feet. Access is by helicopter.

#### History

During the late 1950's, Moneta Porcupine explored the Groundhog Basin area, but subsequently dropped its claims. With the permission of Moneta Porcupine, two former company prospectors, William Huff and James Fucas, continued work in the area and staked new claims (Berryhill, 1964). The Huff prospect was one of those claims. It was discovered in about 1963 by William Huff. In 1963 W.A. Race mapped and sampled the prospect for the Alaska Territorial Department of Mines (Race, 1963). In 1965 the Huff claims were optioned by the Bunker Hill Mining Co. During 1965 the company mapped and sampled the prospect, but dropped its option at the end of the field season (Bunker Hill Company, 1965). Between 1968 and 1970, Humble Oil and Refining Co. optioned the property (Humble Oil and Refining Company, 1970a). El Paso Natural Gas Co. optioned the property from 1971 to 1973, carried out geophysical surveys, mapping, and sampling and drilled two holes with lengths of 99 and 149 feet (George and Wyckoff, 1973). WGM revised previous El Paso maps of the Huff prospect in 1976 (WGM, 1976). AMAX Exploration Co. optioned the property from 1976 to 1981 (Hamilton, 1982). In 1992 Kennecott Exploration briefly examined the property and the El Paso reports (Wakeman, 1992). The claims are not currently active.

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. Polymetallic mineralized zones follow this crosscutting trend and replace marble beds in the Huff prospect area.

#### Marble Bed

The BLM's investigation revealed a marble bed up to 30 feet thick located 1,500 feet from the eastern edge of the belt of metamorphosed Paleozoic rocks. The bed, hosted in schist and gneiss, strikes 325°, dips 40° to 55° to the northeast, and extends for a distance of about 4,500 feet. It is covered by rubble to the south and by the Nelson Glacier to the north. About 1,500 feet from its northern end, a 300-foot-long section of the marble bed is mineralized with sulfides. Polymetallic mineralizing fluids from crosscutting fractures and from along hanging wall fractures have replaced the marble to form a massive sulfide zone within the bed. Mineralized marble varying in width from 0.5 to 15 feet is confined to the hanging wall of the bed. Pyrrhotite, galena, sphalerite, and chalcopyrite replace the marble to form irregular lenses and bands of massive sulfides. The crosscutting shears that are the conduits for the replacement sulfides contain vugs with quartz and fluorite and are only locally mineralized with sulfides.

BLM personnel collected four samples from four locations over a distance of 110 feet along strike of the better hanging wall mineralization. The samples ranged in length from 1.4 to 7 feet and contained from 46.7 ppm to 4.6 oz/ton silver, 2,688 to 7,330 ppm copper, 3.28 to 20.08 percent lead, and from 6.8 to 9.1 percent zinc (Map no. 79.4, samples 90-91, 254-255). Three 4-foot-long samples collected by El Paso from the same area contained from 3.1 to 8.8 oz/ton silver, 0.7 to 1.2 percent copper, from 15.9 to 24.9 percent lead, and from 7.1 to 9.3 percent zinc (George and Wyckoff, 1973).

El Paso conducted ground geophysical surveys (EM) over the marble bed and, as a result, defined a sizeable zone of conductive material. In 1972 El Paso drilled two holes to intercept the marble bed and geophysical anomaly. One, 140 feet long, penetrated the massive sulfide zone 85 feet down dip. A 10-foot intercept averaged 1.55 oz/ton silver, 0.2 percent copper, 8.1 percent lead, and 4.55 percent zinc. The other hole, 99 feet long, failed to reach the mineralized zone (George and Wyckoff, 1973).

BLM personnel examined the marble bed that hosts the massive sulfide zone, both to the south and north of the sulfide zone, but did not find significant mineralization. Other thinner marble beds located in the area were also examined by the BLM, but these too lacked significant mineralization. El Paso's drilling discovered marble beds in the subsurface that are not exposed on the surface (George and Wyckoff, 1973). There remains some potential for buried mineralized marble beds.

#### **Cross Fractures**

BLM investigators examined numerous cross fractures to the north of the marble bed massive sulfide zone. Three of these, at distances of 500, 800, and 2,000 feet from the marble bed massive sulfide zone, contained significant metal values. They are irregularly mineralized with sulfides that pinch and swell. Druses and vugs of quartz and fluorite are common. The predominate sulfides are galena and sphalerite. Samples from the three cross fractures contained from 0.9 ppm to 228.4 oz/ton silver, 49 to 3,994 ppm copper, from 83 ppm to 6.24 percent lead, from 84 ppm to 5.1 percent zinc, and up to 1,295 ppm tin (Map nos.79.2-79.4, samples 92-93, 96-97, 420, 454).

### Conclusions

The marble bed massive sulfide mineralization, as it is currently understood, is of sufficient grade to be of exploration interest. Deposition of sulfide minerals in the marble bed is dependent on cross fractures as a conduit for mineralizing fluids and fractures within the marble bed to allow for permeation and replacement. The high silver value of 228.4 oz/ton in a cross fracture may be indicative of the potential for high-grade silver deposits in the area. Ground geophysics indicate a sizable conductor in the vicinity of the bed's mineralized zone. These factors encourage exploration of the marble beds in the Huff prospect area along strike and down dip by geophysics and drilling. Marble beds with sufficient fracturing, such as in fault zones where deposition of significant base-metal and silver deposits are more likely, would be targets.

## WEST NELSON GLACIER

(Figure 4, Map no. 80)

### Location/Access

The West Nelson Glacier prospect is located on the southwest side of Nelson Glacier, about 14 miles east of Wrangell. The area is alpine, ranging in elevation from 2,300 to 2,400 feet. Access is by helicopter.

### History

The West Nelson Glacier prospect is located within a block of 120 claims that were optioned by the Bunker Hill Mining Co. in 1965. The property was dropped at the end of the field season that year (Bunker Hill Company, 1965). Between 1968 and 1970, Humble Oil and Refining Co. optioned the property (Humble Oil and Refining Company, 1970a). El Paso Natural Gas Co. optioned the block of claims from 1971 to 1973, which by then had been expanded to 295 claims. AMAX Exploration Co. optioned the property from 1976 to 1981. The claims are not currently active. The mineralized rock at the West Nelson Glacier prospect is described herein for the first time in published literature.

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. Polymetallic veins follow the crosscutting trend in the West Nelson Glacier area..

BLM work at the West Nelson Glacier prospect was confined to a brief investigation of the ridge crest southwest of the glacier at elevations of 2,300 to 2,400 feet. A crosscutting, 2-foot-wide,

vuggy, silicified shear zone that traces for 80 feet, locally contains pyrite, chalcopyrite, galena, and sphalerite. The zone is hosted in gneiss. A 0.2-foot-long chip sample across the best sulfide mineralization contained 4.39 oz/ton silver, 2.70 percent lead, 9,577 ppm zinc, and 8,363 ppm arsenic (Map no. 80, sample 9603).

## Conclusions

While the extent of the West Nelson Glacier mineralized zone indicates that it is of no economic importance, it and the other area prospects indicate pervasive silver-lead-zinc mineralization across a large area.

# **GLACIER BASIN**

(Figure 4, Map no. 81)

## Location/Access

The Glacier Basin prospect is located at the southeastern end of the Groundhog Basin area, about 13 miles east of Wrangell. The area consists of a flat-bottomed valley trending east-northeast with steep slopes rising to the south. To the northwest, progressively steeper slopes rise from the valley floor (at 2,000 feet) to the summit of Marsha Peak (at 4,525 feet) over a distance of about 1 mile. Thick brush predominates at the lower elevations with bare rock higher up. Avalanche snow accumulates in the gullies and on the floor of the valley until mid-season. Access to the prospect is via helicopter, with landing sites on the valley floor.

#### History

The Glacier Basin prospect was discovered in 1898 (Roppel, 1987). The area was prospected with three adits and numerous pits and cuts between 1898 and 1943. In 1943 the USGS mapped the area and crudely estimated resources (Gault and others, 1953). In 1963 the Bureau of Mines examined the Glacier Basin area and discovered that trace amounts of tin are associated with granulite, and beryllium is associated with quartz-fluorite breccia veins in the area (Berryhill, 1964).

During 1964 and 1965, claims were staked covering most of the mineralized rock in the Groundhog Basin area including Glacier Basin. In 1965 the Bunker Hill Mining Co. optioned the property, but dropped it the same year (Bunker Hill Company, 1965). Between 1968 and 1981, Humble Oil and Refining Co., El Paso Natural Gas Co., and AMAX Exploration Co. optioned the area. These companies concentrated their mapping, sampling, and drilling to the north and east of Glacier Basin and did little or no work in the basin itself (Humble Oil and Refining Company, 1970b; George and Wyckoff, 1973; Hamilton, 1982a).

#### **Mineral Assessment**

The Groundhog Basin area consists of a belt of metamorphosed Paleozoic sediments and volcanics about 1.5 miles wide that strikes about 330° and dips about 50° to the northeast. The belt is bounded on the east by the 60- to 70-million-year-old great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and on the west by 90-million-year-old granodiorite (AMAX Exploration Inc., 1981). On the northern side of Groundhog Basin, a 16.3-million-year-old biotite granite stock intrudes the metamorphic rocks. Studies by Newberry and Brew (1989) indicate that the biotite granite stock is a zinnwaldite "tin" granite and that several base-metal deposits in the area are related to this tin granite. Sills and dikes of rhyolite composition extend from the stock to form predominately concordant quartz porphyry. The rhyolite sills predominate in the western third of the metamorphic belt (George and Wyckoff, 1973; AMAX Exploration Inc., 1981). The Glacier Basin prospect is situated in the western part of the belt, in the area with numerous rhyolite sills.

The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss. Metamorphism has also produced granulite (calc-silicate gneiss) along layers in the metamorphic rocks (George and Wyckoff, 1973).

Studies by El Paso indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; the rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. In Glacier Basin, both bedding plane and crosscutting shears are occupied by quartz-fluorite veins with small amounts of galena, sphalerite, and more rarely beryllium.

Galena and sphalerite replace pyroxene granulite in the metamorphic belt of rocks in the Glacier Basin area. These sulfide zones are tabular, follow the original bedding in the rocks, and have been termed "ore beds" by Gault and others (1953).

The four ore beds that have been delineated in Glacier Basin are similar to those in Groundhog Basin (Map no. 73.1-73.4). They are confined to the north side of the basin and are found below 3,000 feet in elevation. The ore beds are separated by 200 to 1,000 feet of rhyolite sills, schist, and gneiss. They range in thickness from 0.3 to 20 feet and extend up to 2,000 feet along strike. They strike north-northwesterly and dip 50° to 60° to the northeast. The ore beds consist of granulite replaced by disseminations, pods, and discontinuous bands of sulfides. The sulfides are pyrrhotite, pyrite, sphalerite, and galena with a gangue of quartz, feldspar, hornblende, pyroxene, apatite, magnetite, and garnet. Trace amounts of cassiterite are also found in the ore beds (Berryhill, 1964). The USGS inferred a resource in the area of many hundreds of thousands of tons of pyroxene granulite that average 1.66 percent zinc and 1.09 percent lead. (Gault and others, 1953).

The BLM's examination of the Glacier Basin prospect was confined to the easternmost ore bed in the vicinity of two adits at elevations of 2,285 feet and 2,253 feet. At the time of the examination, the portal of the lower adit was covered with snow. The upper adit is 40 feet long. Small areas of disseminated and massive sulfides are located in a silicified zone at the contact between a quartz rhyolite sill and gneiss just above the adit. Select samples collected of the best mineralized rock contained from 3.97 to 7.98 oz/ton silver, 4.64 to 33.4 percent lead, and 4.3 to 7.9 percent zinc (Map no. 81, samples 2608-09).

USGS studies indicate that quartz-fluorite breccia veins are found on both the northwest and south sides of Glacier Basin, along both crosscutting and bedding plane shears. The veins pinch and swell, range in thickness from a few inches to 30 feet, and contain vugs of quartz and fluorite. Sulfides in the veins include disseminated galena, sphalerite, pyrrhotite, pyrite, and chalcopyrite. The gangue minerals are quartz, fluorite, and the silicate minerals of the metamorphic rocks (Gault and others, 1953).

The USGS estimates that at least six veins in Glacier Basin have a minimum thickness of 3 feet and a minimum strike length of 600 feet. An additional 6 veins are 5 feet or more thick and extend at least 1,000 feet along strike. These 12 veins were estimated to contain over 1,000,000 tons grading 0.14 percent zinc and 0.09 percent lead (Gault and others, 1953).

The Bureau of Mines' examination of quartz-fluorite breccia veins in Glacier Basin found that five contain beryllium. The veins are widely separated and were located by personnel using a beryllium meter on the northwest side of the basin at an elevation of 3,000 feet. The beryllium occurs as amorphous <sup>1</sup>/<sub>2</sub>-inch blebs of pale blue beryl or as creamy white beryl, with an average grade of 0.1 percent beryllium oxide (Berryhill, 1964).

## Conclusions

The Glacier Basin ore bed and vein deposits, as they are currently understood, are too low-grade to be considered an attractive exploration target. The discovery of beryllium by the Bureau of Mines in1963 added interest to the area, but did not result in the discovery of economic mineralization. However, the area is worthy of further examination for higher-grade beryllium deposits.

## **LAKE** (Figure 4, Map nos. 82.1-82.2)

### Location/Access

The Lake prospect is located southwest of the Groundhog Basin area, approximately 11 miles east of Wrangell. The prospect workings are between 1,420 and 1,550 feet in elevation along the steep, northwestern flank of the ridge separating Porterfield Creek from Glacier Creek, 2 miles east of Virginia Lake. The terrain is heavily timbered and very steep. Access is via helicopter to a muskeg directly above the prospect at an elevation of 2,030 feet and then by foot down to the workings. Historically, access to this property was via a route that led first by trail from tide water at Eastern Passage inland, across Virginia Lake by boat, and again by trail along Porterfield Creek for approximately two miles. The trail subsequently led from the creek up the steep slopes of the ridge to the northern end of the property.

#### History

The Lake prospect was first staked as the Margery claims and was described as having a 40-foot adit in 1905 (Wright and Wright, 1905) and several opencuts and short tunnels by 1908 (Wright and Wright, 1908). Unpublished field notes taken by Buddington in 1921 report that 1 ton of ore was shipped from the Lake deposit (Gault and others, 1953). In 1924 the prospect was the only one in the area being actively developed (Buddington, 1926). It was under the control of the Virginia Lake Mining Co. as early as 1925, when the claims were restaked as the Lake group (Alaska Kardex, 1982). Under this ownership, development of the underground workings continued at least until 1927 (Smith, 1930) and probably later. A claim post found during the BLM's examination of the prospect contained a staking notice dated 1965 posted by K. Eichner, A. Lillie, and Huff. In 1978 the Pacific Coast Molybdenum Co., a subsidiary of U.S. Borax and Chemical Corp., restaked the prospect as the Port claims. The claims were dropped in 1986 (Alaska Kardex, 1982; Bureau of Land Management, ALIS).

#### **Mineral Assessment**

A recent regional-scale map compilation describes the area of the Lake prospect as Cretaceous intrusives (Brew, 1997c). However, more detailed mapping done by the USGS prior to 1953, describes a package of metamorphic rocks including phyllite, schist, slate, and quartzite exposed in the workings of the prospect. These metamorphic rocks are inferred to be in contact with a unit of quartz diorite approximately 1,500 to 2,000 feet to the east of the workings (Gault and others, 1953). Mineralized rock at the prospect is found along a fault zone that strikes 025° to 035° and dips 70° to 90° to the southeast. Examination during this study indicates the fault zone is up to 5 feet wide; however it is reported as up to 12 feet wide in some locations (Gault and others, 1953). It has been exposed by 3 adits, numerous trenches, and surface stripping over a strike length of approximately 1,450 feet. The fault contains quartz breccia and, locally, seams of fault gouge up to 1 foot thick. Intruding the fault zone is a narrow mafic sill that does not appear to be related to the mineralization. Mineralized rock is predominantly enriched with galena, with lesser amounts of sphalerite, pyrite, and minor chalcopyrite. The sulfides occur in the quartz breccia that fills the fault zone and also as distinct massive bands up to 0.5 feet wide, as pods, and

as veinlets, all within the fault zone. The zone is open along strike and at depth. One of the adits shows the fault to continue at least to a depth of 60 feet down dip.

Adit 1, as described by Gault and others (1953), is the southernmost adit at an elevation of 1,425 feet. The back of this 20-foot, L-shaped adit has caved onto the floor, but access is still possible. A select sample across a narrow vein of galena and sphalerite outside the portal, contained 161 ppm silver, 8.54 percent lead, and 2.1 percent zinc (Map no. 82.1, sample 376).

Adit 2, as described by Gault and others (1953), is located approximately 110 feet southwest of Adit 1, at an elevation of 1,420 feet. This T-shaped adit consists of a 100-foot crosscut and a 135-foot drift. The fault zone is exposed along the entire length of the drift. A 3.0-foot sample across the fault zone in the north face of the drift contained only traces of silver, lead, and zinc (Map no. 82.2, sample 9695). A sample across the fault zone in the south face of the drift ran 10.3 ppm silver, 1,058 ppm lead, and 1.3 percent zinc across 4.6 feet (Map no. 82.2, sample 9694). A high-grade dump sample contained 4.73 oz/ton silver, 10.50 percent lead, and 6.6 percent zinc (Map no. 82.2, sample 2613).

Adit 3 is located 350 feet southwest of Adit 2 at an elevation of 1,550 feet (Gault and others, 1953). Adit 3 was reported to be caved as early as 1943 and was not visited during this study.

In addition to the three adits, numerous surface trenches and pits have been dug along the fault zone. BLM personnel took two samples in a trench that exposes the surface trace of the fault zone above the drift in Adit 2. One contained 195 ppm silver, 2,049 ppm copper, 7.89 percent lead, and 5.7 percent zinc across 0.5 feet of quartz breccia in the fault zone (Map no. 82.1, sample 377). The other was taken across a high-grade vein of massive galena and sphalerite 0.25 feet wide. It contained 411 ppm silver, 3,266 ppm copper, 25.10 percent lead, and 3.6 percent zinc (Map no. 82.1, sample 378). A grab sample from a trench dump, just uphill from Adit 3, contained 178 ppm silver, 13.21 percent lead, and 16.4 percent zinc (Map no. 82.1, sample 380).

### Conclusions

The Lake prospect is located 2 miles southwest of the contact between granodiorite and metamorphic rocks that forms the western boundary of the Groundhog Basin area. Host rocks, base-metal mineralization, and shear zone orientation at the Lake prospect are similar to many of the Groundhog Basin deposits, which suggests a relationship may exist between the ore-forming processes at both locations.

The mineralization at the Lake prospect is contained within a persistent, predictable fault zone that has been traced for over 1,450 feet. However, the base-metal values are highly variable, and they occur only within a narrow part of the fault zone. As it is now understood, the mineralization at the Lake prospect is too narrow and low-grade to be of exploration interest. However, the fault zone and the area in general still hold the potential for hosting higher-grade or more extensive mineralized zones.

## **BERG BASIN**

(Plate 1, Map no. 83)

## Location/Access

The Berg Basin prospect is located at the southeastern end of the Groundhog Basin area, about 14 miles east of Wrangell. The prospect is located on the east wall of a steep-sided gulch that drains from the northern side of Berg basin. An adit portal on the property is located at an elevation of 1,780 feet at the top of a steep talus slope and a short cliff. Access to the prospect is difficult. Early in the season, the area may be covered with heavy snow packs, but helicopter landing sites are available. Late in the season, the area is choked with brush, and helicopter landing sites are hard to find.

#### History

The Berg Basin prospect was discovered in 1907. By 1947 it was explored by an 840-foot adit and several surface pits. During 1947 and 1948, two diamond drill holes, totaling 742 feet, explored the prospect (Ray, 1953). The claims are not currently active.

### **Mineral Assessment**

The Berg Basin prospect is located in the same belt of metamorphosed Paleozoic sediments and volcanics that hosts the Groundhog Basin area deposits. The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartzmica schists and hornblende-biotite-pyroxene-feldspar gneiss (George and Wyckoff, 1973).

Studies by El Paso Natural Gas Co. indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. Basaltic and rhyolitic sills and dikes intrude along both trends. The sills predominate. At the Berg Basin prospect, sulfide mineralization is found within the basalt dikes and along the contacts of the basalt dikes with rhyolite, schist, and gneiss (Ray, 1953).

In 1923 Buddington reported that the Berg prospect consists of a 1-foot-thick quartz vein carrying moderate amounts of gold and silver hosted in a 12-foot-thick rhyolite sill. The sill is fractured with a network of narrow quartz veinlets containing pyrite, galena, and sphalerite. A 400-foot-long adit was driven to intersect the vein at depth (Buddington, 1923).

In 1947 Ray, of the USGS, mapped and sampled the prospect. He reported galena-sphalerite mineralization in lenses and pods within basalt dikes and along their contacts. Two samples, collected from blocks of galena from a discovery pit on the property, contained 29.9 and 28.7 oz/ton silver. Other analyses from these samples were not reported (Ray, 1953).

Ray (1953) writes that the 1-foot-thick quartz vein on the property is reported to contain \$14 per ton in gold (0.4 oz/ton). The 840-foot adit was driven to intersect the vein and the galena-sphalerite mineralization at a depth of 170 feet below its surface exposure. Two diamond drill

holes with lengths of 180 and 540 feet were collared within the adit. Neither the gold-bearing quartz vein nor the galena-sphalerite mineralization were found in the adit or drill holes (Ray, 1953). The BLM's examination of the Berg Basin prospect was confined to the bottom of a gulch below the adit. There was no sign of past activity in the area. In the creek, investigators found a single 0.4-foot-thick piece of quartz float, with blebs of sphalerite, galena and pyrite. Analysis of it indicated 10 ppb gold, 75 ppm silver, 2.12 percent lead, 5.0 percent zinc, and 1,060 ppm arsenic (Map no. 83, sample 2644). While leaving the area by helicopter, BLM personnel spotted the adit portal at the top of a steep talus slope in the face of a cliff.

#### Conclusions

Little is known about the grades of the Berg Basin base-metal and gold occurrence. Apparently a lot of development was accomplished on the property based only on a gold analysis from one vein. Resampling of the 1-foot-thick quartz vein is warranted if it can be found. As it is now understood, the Berg Basin mineralization is too discontinuous and low-grade to be an exploration target.

## **COPPER KING**

(Plate 1, Map nos. 84.1-84.2)

## Location/Access

The Copper King prospect is located at the southeast end of the Groundhog Basin area, about 16 miles east of Wrangell. The prospect is situated at an elevation of 1,300 feet, near a steepsided creek that drains into Aaron creek. The area is covered with timber and brush. Access to the prospect is via helicopter to a landing site in a muskeg at an elevation of 1,500 feet.

#### History

The Copper King prospect was staked in 1906 and restaked in 1951 (Berg, 1967). It was developed by a 9-foot-deep shaft and cuts. During 1956 it was examined by James A. Williams of the Alaska Territorial Department of Mines (Williams, 1957). The claims are currently inactive.

#### **Mineral Assessment**

The Copper King prospect is located in the same belt of metamorphosed Paleozoic sediments and volcanics that hosts the Groundhog Basin deposits. The belt is about 1.5 miles wide, strikes 330°, and dips about 50° to the northeast. The belt of sedimentary and volcanic rocks has been metamorphosed to upper greenschist or lower amphibolite facies to form quartz-mica schists and hornblende-biotite-pyroxene-feldspar gneiss (George and Wyckoff, 1973).

Studies by El Paso Natural Gas Co. indicate two major fault trends in the belt of metamorphic rocks (George and Wyckoff, 1973). One trend is parallel to foliation and bedding; rhyolite sills intrude along this trend. A crosscutting trend strikes about 025° (range 005° to 030°) and dips 45° east to vertical. At the Copper King prospect, a quartz-sulfide mineralized zone is found within a rhyolite sill (Williams, 1957).

Examination of the Copper King prospect by Williams in 1956 revealed a 4.5-foot-thick quartz sulfide vein that strikes north-northwesterly and dips 80° to the east. The vein is exposed in the creek and by cuts on both sides for a distance of 45 feet. A 9-foot-deep shaft collared on the vein is located on the southeastern side of the creek. The shaft was flooded in 1956. Up dip, the vein grades into rhyolite. Down dip, the vein contains more quartz and sulfides. A sample collected from the upper part of the vein contained 0.15 percent zinc, whereas a sample collected from the shaft's dump contained 3.33 percent zinc and a trace of copper (Williams, 1957).

The BLM's examination of the Copper King prospect revealed the remains of an old cabin on the southeast side of the creek. Up the creek from the cabin, at an elevation of 1,320 feet, a banded, quartz-sulfide mineralized zone that strikes north-northwest and dips steeply is exposed in the creek. It is hosted in rhyolite. A trench, now sloughed, extends for a distance of about 30 feet from the northwestern side of the creek in a north-northwest direction along the trend of the mineralized zone. Overburden conceals outcrop between the creek and the flooded shaft, which is located on the southeastern side of the creek, opposite the trench. The quartz-sulfide mineralized zone is partly exposed for a distance of 4 feet along strike in the creek and contains

sphalerite, chalcopyrite, and pyrite. A 0.7-foot sample across the most mineralized part of the zone exposed in the creek contained 18.9 ppm silver, 5,639 ppm copper, and 2.1 percent zinc (Map no. 84.1, sample 374). A shaft dump sample contained 12 ppm silver, 4,694 ppm copper, and 1.9 percent zinc (Map no. 84.1, sample 375).

A quartz vein is exposed in the creek on the Copper King prospect at an elevation of 1,200 feet, about 750 feet southwest of the shaft. The 1.6-foot-thick, northeast-striking, steeply dipping quartz vein contained 679 ppb gold (Map no. 84.2, sample 372).

## Conclusions

As it in now understood, the Copper King occurrence is too low-grade and too narrow to be an attractive exploration target.

## BERG

#### (Plate 1, Map no. 85)

## Location/Access

The Berg claims are located on the north side of Berg Bay, near Berg and Aaron Creeks, about 18 miles southeast of Wrangell (Alaska Kardex 1982). The area topography is moderately steep, with thick timber and brush cover. Access to the prospect is by boat and foot.

#### History

Lester Berg held lode gold claims at the mouth of Aaron Creek as early as 1907. He had a camp in the area at the time, and that is when the gold claims are assumed to have been staked (Alaska Kardex, 1982). The authors have found no other mention of these claims in published literature. There are currently no active claims in the area.

#### **Mineral Assessment**

The Berg claims are located in the same belt of metamorphosed Paleozoic sediments and volcanics that host the Groundhog basin area deposits (Brew, 1997c; Brew and Koch, 1997).

The BLM's investigation of the Berg claims area was confined to sampling stream sediment and quartz float in a stream that flows across the reported claim location. The samples did not contain significant metal values.

#### Conclusions

The Berg prospect seems to be of little significance. There is no mention of it in published literature, and there has been no subsequent mineral exploration activity either at the reported claim site or in the general vicinity. The reported claim location is too vague to recommend further follow-up.

## **BLACK CRAG**

## (Plate 1, Map nos. 86.1-86.4)

## Location/Access

The Black Crag prospect is located in a U-shaped valley 1 mile southeast of Black Crag Peak, about 27 miles east of Wrangell. The area topography is rugged alpine with cliffs, sharp peaks, glaciers, and ice falls on either side of the valley. Elevations in the area range from 1,400 to 5,000 feet. Access to the prospect is by helicopter.

#### History

The Black Crag prospect and vicinity is not mentioned in published literature. However, a prospector reports drilling for molybdenum in the Black Crag vicinity during the 1950's (Paul Pieper, oral commun., 1998). An old, weathered post-possibly a claim post-was found in the area during this study and may indicate past activity.

## **Mineral Assessment**

The Black Crag prospect is located near the contact between Miocene alkali-feldspar granite with associated quartz-porphyritic rhyolite dikes and flows and Mesozoic and Paleozoic metasedimentary and metavolcanic rocks (Elliott and Koch, 1981).

A brief examination of the area during this study revealed copper- and molybdenum-bearing float on the east side of the valley at elevations between 1,400 and 2,300 feet. The float consists of quartz porphyritic rhyolite with molybdenum coatings along fractures; fine-grained, silicified felsite with a 0.01-foot-thick seam of molybdenum; and silicified, iron-stained intrusive with pyrite and chalcopyrite. Grab samples from the molybdenum-bearing rocks contained 735 and 1,348 ppm molybdenum (Map nos. 86.2-86.3, samples 476, 480). The chalcopyrite-bearing rock contained 1,508 ppm copper (Map no. 86.3, sample 8733). The float probably originated from cliffs of intrusive and volcanic rock on the east side of the valley. In the valley floor, at an elevation of 2,400 feet, a 0.3-foot-thick, iron-stained, silicified breccia cobble with a pyrrhotite matrix contained 93 ppb gold, 43.5 ppm silver, and 558 ppm zinc (Map no. 86.1, sample 466).

#### Conclusions

The Black Crag prospect has indications of copper, molybdenum, and silver mineralization. The vicinity is worthy of more detailed examination.

# **CRAIG RIVER AREA**

(Plate 1, Map no. 87)

## Location/Access

The Craig River area is located near the U.S.-Canada border, about 7 miles west of Mt. Pounder, a border peak near the head of the North Fork of the Bradfield River. The area is 40 miles east of Wrangell. The occurrence lies at about 3,100 feet elevation in a north-facing, glaciated cirque, south of the head of the Craig River. The general area is marked by rugged mountains with much of the area above tree line. Access is by helicopter.

#### History

There is no known published reference to the occurrence in the Craig River area. As part of the Alaska Mineral Resources Program, USGS sampling in the late 1970's revealed anomalous values of silver, gold, copper, and zinc in the upper Craig River area (Koch, 1997). During the current study, BLM personnel were directed to the immediate area by a helicopter pilot who had flown mineral industry geologists to the site in the 1990's.

### **Mineral Assessment**

The occurrence in the Craig River area consists of skarn minerals with associated sulfides that are hosted in marble. Rocks in the area are mapped as Mesozoic or Paleozoic metasedimentary and lesser metavolcanic rocks with local marble. Two Eocene intrusive bodies are also mapped in the area. One is granodiorite and quartz diorite; the other is quartz monzonite and granodiorite (Elliot and Koch, 1981).

Rock units in the Craig River area trend toward the northeast and dip moderately to the southeast. A banded marble layer that is associated with the skarn is approximately 300 feet thick. It is structurally underlain by a layer of dark gray to dark green, well-foliated metasediments, approximately 500 feet thick, which in turn are in contact with a quartz monzonite and granodiorite. Structurally overlying the marble is another layer of metasediments. Based on mapped units, the expected contact between the marble and the intrusive is covered by an icefield to the southwest of the cirque skarn occurrences.

The 300-foot-thick layer of marble in the Craig River area is medium- to coarse-grained, commonly white, with bands of interlayered schist and quartzite that show evidence of intense deformation. Skarn minerals are mainly garnet and epidote with patches and seams of massive pyrite, pyrrhotite, and minor chalcopyrite. Gossan is common where the sulfides associated with the skarn have been oxidized.

BLM personnel collected four samples in the Craig River area; three of them were of skarnrelated sulfides and associated gossan. One select sample contained 1,781 ppm copper (Map no. 87, sample 3747) and another contained 478 ppm molybdenum (Map no. 87, sample 3736). Neither of these samples represent significant extents of mineralization. Precious-metal values from the samples were low; the highest gold value was 41 ppb across 2.2 feet of gossan (Map no. 87, sample 3746).

## Conclusions

The skarn occurrence in the Craig River area is very small and low-grade. The immediate contact between the mineralized marble layer and the quartz monzonite and granodiorite, with which the mineralization is likely associated, was not discovered. The contact is likely covered by ice sheets in the area. Based on the evidence gathered to date, the occurrence is of little significance.

# CRAIG CLAIMS AREA

(Plate 1, Map nos. 88.1-88.2)

## Location/Access

The Craig Claims area is located near the U.S.-Canada border, about 2.5 miles west of Mt. Pounder, a border peak near the head of the North Fork of the Bradfield River. The area is 45 miles east of Wrangell. The occurrence is reported to lie a few hundred feet below the foot of an icefield, at about 4,000 feet elevation (Grybeck and Berg, 1998). The area is marked by rugged mountains with sparse vegetation. Access is by helicopter.

## History

Sixty claims, called the "Craig" claims, were staked by K. Eichner, B. Huff, W. Hawkins, and A. Lillie in 1977 (Alaska Kardex, 1982). By 1981 the claims were no longer active (Elliot and Koch, 1981). There is no known report of activity since the original claims were staked.

#### **Mineral Assessment**

BLM personnel examined the Craig Claims area, but were unable to locate the occurrence in outcrop. Instead, they sampled rubble from talus slopes that was similar to the described mineralized rock. Elliot and Koch (1981) reported disseminated chalcopyrite, pyrite, and pyrrhotite in metasedimentary rock and chalcopyrite in thin veinlets. Float with skarn minerals including magnetite and minor chalcopyrite is also reported. The host rocks in the area have been mapped as Mesozoic or Paleozoic metasedimentary and lesser metavolcanic rocks with local marble (Elliot and Koch, 1981).

BLM personnel collected seven samples in the Craig Claims area. Four of the samples were collected from rubblecrops at the foot of steep cliffs in the area of the reported occurrence. Two types of mineralization are evident-disseminated and layered sulfides in schist and gneiss, and skarn. A sample of hornblendite, which was likely formed as a skarn, contained about 25 percent sulfides, mostly pyrite and pyrrhotite, with 5,706 ppm copper and 3.1 percent zinc (Map no. 88.2, sample 3740). The skarn is more commonly evident as inch-scale seams of coarsely crystalline pyrite. The disseminated and layered sulfides consist mainly of pyrite. Sample results indicate low base-metal values. The highest gold value from the area was only 30 ppb (Map no. 88.2, sample 3740).

Investigators collected three samples from a ridge crest 0.7 miles west-southwest of the rubblecrops described above. Iron-stained, metasedimentary rocks and minor skarn were sampled from a roof pendent surrounded by quartz monzonite and granodiorite. The base- and precious-metal values of the samples were low. One skarn sample contained 1,277 ppm copper and 2,288 ppm zinc (Map no. 88.1, sample 3741).

# Conclusions

BLM personnel did not find significant mineralization in the Craig Claims area. The fact that the claims were held for less than 2 years also suggests that the occurrence is of limited significance.

## NORTH BRADFIELD RIVER SKARN

(Plate 1, Map nos. 89.1-89.7)

## Location/Access

The North Bradfield River Skarn prospect is located 15 miles up the North Fork of the Bradfield River, about 39 miles east of Wrangell. An old, partly washed-out logging road extends from the head of Bradfield Canal up the North Fork of the Bradfield River to the prospect. The area topography is rugged, ranging in elevation from 400 to 4,000 feet. The lower elevations are brush- and timber-covered; the upper elevations are alpine. Access to the prospect is by helicopter.

### History

Malachite-stained cliffs led pilot Ken Eichner to the discovery of the North Bradfield River Skarn iron-copper prospect in 1955. His partner, Paul Pieper, staked the area (Ken Eichner, oral commun., 1997), and by 1958 it was held with 41 claims (Alaska Kardex, 1982). Vancouver geologist Clive Ball examined and mapped it in 1956 (Ball, 1956). In 1957 it was examined by consultants for Takahashi C.T. & Co. and optioned until December 31, 1959. Takahashi mapped the prospect, conducted an aeromagnetic survey, and drilled 14 shallow holes (Roberts, 1958). From 1960 to 1962, Utah Construction optioned the property, mapped and sampled it in detail, drilled out at least 460 feet of core, and estimated resources (Utah Construction, 1960; 1962). In 1960 the USGS mapped the prospect (MacKevett and Blake, 1963). According to recording office records, an adit was driven on the prospect in 1967, and the prospect was drilled in 1968 and 1970 (Alaska Kardex, 1982). In 1977, 400 stream sediment and rock chip samples were collected from the prospect (Nieman and Ellison, 1977). There are no active claims in the area.

## **Mineral Assessment**

The North Bradfield River Skarn prospect is located in the northwestern corner of a large, metamorphosed roof pendent surrounded by intrusive rocks of the Coast Range Batholith. The pendent is 2 miles wide in the area of the prospect. It consists of Mesozoic and Paleozoic metasedimentary and metavolcanic rocks that are altered to gneiss and schist and are intercalated with beds of marble. The metamorphic rocks are in contact with Eocene quartz monzonite and are cut by felsic to intermediate dikes (Utah Construction, 1960; Elliott and Koch 1981). The iron-copper deposits are found in skarn zones associated with beds of marble. According to MacKevett and Blake (1963), the marble beds form an overturned syncline; as interpreted by Sonnevil (1981), they form a homocline with northwest to northeast dips. Work by Utah Construction (1960) tends to support the homoclinal interpretation.

The iron-copper deposits of the North Bradfield River Skarn form a discontinuous series of pods and lenticular bands striking northwest and dipping 30° northeast to vertical. They form a belt 0.5 mile wide by 2 miles long with an upper area of iron-copper deposits at elevations of 2,000 to 3,600 feet and a lower area of deposits at elevations from 700 to 900 feet. Locally the marble is replaced by calc-silicate skarn, which contains lenses and pods of magnetite with minor pyrrhotite, chalcopyrite, and pyrite (Utah Construction, 1960).

Based on trenching and drilling, Utah Construction has identified nine magnetite-copper lenses in the upper area that range in width from 15 to 150 feet, in length from 150 to 650 feet, and in depth from 100 to 500 feet. In the lower area, Utah Construction has identified four magnetitecopper lenses or zones that range in width from 15 to 20 feet, in length from 320 to 1,200 feet, and in depth from 150 to 400 feet.

It is estimated that the upper area deposits contain 500,000 tons of proven and probable resources and 3,542,000 tons of possible resources, and the lower area deposits contain 500,000 tons of proven and probable resources and 939,000 tons of possible resources. Taken together, the lower and upper areas contain 1 million tons of proven and probable resources and 4,481,000 tons of possible resources. The grade is estimated to be 35 to 40 percent iron, 0.2 to 0.3 percent copper, and 3 to 4 percent sulfur (Utah Construction, 1960).

The BLM's examination of the North Bradfield River Skarn prospect was confined to (1) sampling rock exposures at elevations from 700 and 750 feet along the North Fork of the Bradfield River at the northern end of the prospect and (2) sampling magnetite-copper and associated mineralization in the lower (northwestern) and upper (southeastern) parts of the prospect. At the northern end of the prospect, samples collected from skarn mineralized zones found in iron-stained schist and gneiss (in cliffs on the east side of the North Fork of the Bradfield River) contained up to 164 ppb gold and 1.3 percent copper (Map nos. 89.1-89.2, samples 455-456, 473, 2860-61, 8726). In the lower part of the prospect, samples collected from magnetite and associated skarn mineralization contained up to 190 ppb gold, 6,629 ppm copper, and 168 ppm molybdenum (Map nos. 89.3-89.4, samples 471, 474-475, 8725, 8727-29). In the upper part of the prospect, samples collected from magnetite and associated skarn mineralization contained up to 289 ppb gold, 3,351 ppm copper and 229 ppm molybdenum (Map nos. 89.5-89.7, samples 472, 481-484, 487-488, 8735-38). In addition, two reconnaissance samples collected of magnetite, hematite, and quartz from the upper part of the prospect and analyzed by a different laboratory contained 1,360 and 3,600 ppb gold, 3.4 and 11.6 ppm silver, and 1,130 and 2,200 ppm copper (Map no 89.7, samples 2645-46). The BLM's sample results for copper compare roughly with the Utah Construction resource estimates of 0.2 to 0.3 percent copper. The gold values in samples 2645 and 2646 are anomalously high when compared with the other samples collected from the prospect and may be analytical artifacts.

## Conclusions

The resource estimate for the North Bradfield River, Skarn prospect indicates a copper-iron deposit that is too small and too low-grade to be a development target. Exploration at greater depth and in the vicinity of the known deposit may reveal more significant mineralized rock. In addition, the high gold values in samples collected from the upper area are worthy of follow-up.

# MT. LEWIS CASS

(Plate 1, Map nos. 90.1-90.3)

## Location/Access

The Mt. Lewis Cass occurrence is located 1.5 miles southwest of Mt. Lewis Cass, 48 miles east of Wrangell. The area topography is alpine, with steep-walled, U-shaped valleys, glaciers, and sharp peaks. Elevations at the occurrence range from 2,400 to 4,100 feet. Access to the occurrence is by helicopter.

### History

The Mt. Lewis Cass occurrence was discovered during this study. There is no mention of it in published literature.

#### **Mineral Assessment**

The Mt. Lewis Cass occurrence is located near the contact between Eocene granodiorite and Mesozoic and/or Paleozoic metasedimentary and metavolcanic rocks with some marble (Elliot and Koch, 1981). The granodiorite is exposed in a stream cut located at the bottom of a U-shaped valley (elevation 2,500 feet). The southern side of the valley consist of iron-stained, volcanic and sedimentary rocks.

The granodiorite includes narrow quartz stringers that contain knots and blebs of sulfides. A 5-foot-long by 0.3-foot-thick quartz stringer contains blebs of molybdenum. A 0.3-foot chip sample across it assayed 1,240 ppm molybdenum (Map no. 90.2, sample 8718). Other stringers examined did not contain metallic sulfides.

Iron-stained, silicified, metasedimentary and metavolcanic float, which is likely rubble from the cliffs on the southern side of the valley, contains pyrrhotite, magnetite, and chalcopyrite. The chalcopyrite is in blebs and narrow quartz stringers. Samples from the chalcopyrite-bearing float contain from 1,832 ppm to 1.3 percent copper, up to 289 ppb gold, and 17.6 ppm silver (Map nos. 90.1-90.2, samples 463, 8717).

BLM personnel examined an area of iron-stained, volcanic rocks exposed between elevations of 4,000 and 4,300 feet in a cliff on the southern side of the valley. In places, these rocks are silicified, contain small amounts of pyrite and pyrrhotite, and are intensely iron-stained. Metallic sulfide minerals were not found (Map no. 90.3, samples 470, 8723-24).

## Conclusions

The Mt. Lewis Cass occurrence has indications of copper and molybdenum mineralization. The area is worthy of more detailed examination.

# **UPPER MARTEN LAKE**

(Plate 1, Map no. 91)

## Location/Access

The Upper Marten Lake area is located about 25 miles southeast of Wrangell on the mainland. The occurrence is in the saddle of a ridge at an elevation of about 2,600 feet, about 1 mile eastsoutheast of the eastern end of Upper Marten Lake. The site is above the local tree line where the sparse vegetation includes brush and grasses. Access is best by helicopter.

### History

The Upper Marten Lake area was brought to the attention of BLM personnel by a USGS stream sediment sample from the area that was anomalous for gold (Koch and Elliot, 1981). No other reference to the site is known.

### **Mineral Assessment**

The Upper Marten Lake occurrence consists of mineralized rock associated with a fault zone that is oriented 330° and dips about 75° to the northeast. The fault zone forms a topographic low in which a stream now flows and from which an anomalous stream sediment sample was collected by the USGS (Koch and Elliot, 1981). The fault is hosted in rocks mapped as Mesozoic and/or Paleozoic schist and paragneiss and is situated near the contact with a Cretaceous diorite or granodiorite (Elliot and Koch, 1981). The occurrence is also situated about 2 miles west of the Coast Range megalineament (Brew and Ford, 1978) and great tonalite sill (Brew and Morrell, 1983; Brew, 1997h) and, in a general way, is aligned along strike with the mineralized rock of Groundhog Basin and the gold occurrence at Andrew Creek, 15 to 20 miles to the northwest.

Quartz stringers and veins are common in the fault zone along with clay-like fault gouge. The quartz and gouge in places contains sulfides, mainly pyrite and pyrrhotite.

BLM personnel collected four samples of iron-stained quartz and fault gouge from the fault zone at Upper Marten Lake. One sample contained 475 ppb gold, 86.9 ppm silver, and 1,218 ppm lead (Map no. 91, sample 2847). The other samples had low precious- and base-metal values.

BLM personnel also collected one sample from an iron-stained quartz vein exposed along a ridge crest about 2 miles north of the Upper Marten Lake occurrence. The vein trends 335° and dips about 75° to the northeast. It is hosted in schist, and the vein and schist foliation are approximately conformable. The vein pinches and swells from about 3 inches to 1 foot in width. It is exposed for about 20 feet. It contains only minor pyrite. Analytical results revealed 517 ppb gold across 0.7 feet of the vein (Plate 2, Map no. R92, sample 3749).

### Conclusions

The known mineralized rock at the Upper Marten Lake occurrence is insufficient in size and grade to be of significance by itself. The occurrence is noteworthy because of its similar relative

position to the Coast Range megalineament and great tonalite sill as the mineralized rock at Groundhog Basin and Andrew Creek. If the similarity of position is related to genesis of the mineralized rock, the area may be considered more prospective for hosting mineral deposits than previously thought.

## **BRADFIELD RIVER**

(Plate 1, Map nos. 92.1-92.3)

## Location/Access

The Bradfield River prospect is located near the mouth of the Bradfield River near the head of Bradfield Canal, 37 miles southeast of Wrangell (Alaska Kardex, 1982). The area topography is moderately steep with timber and brush cover. Access to the prospect is by boat and foot.

#### History

In 1962, 57 placer claims were staked for iron at the head of Bradfield Canal. In 1974, three placer claims were also staked for iron at the mouth of the Bradfield River (Alaska Kardex, 1982). There is no other mention of these placer claims in published literature. Currently, there are no active claims in the area.

## **Mineral Assessment**

The tide and river flats at the head of Bradfield Canal and at the mouth of the Bradfield River include extensive sediments that contain wisps of magnetite-rich black sands. The source of the magnetite is likely the iron-rich North Bradfield River Skarn deposit and the intrusives of the Coast Range Batholith.

The BLM's examination of the head of the Bradfield Canal was confined to collecting 12 stream sediment sample from magnetite-bearing sands exposed in river and tide flats. The samples averaged 9 percent iron. The two highest-grade iron samples contained 20.34 and 54.89 percent iron (Map no. 92.3, samples. 70, 238). None of the samples contained other significant metal concentrations.

### Conclusions

The Bradfield River prospect does not contain sufficient iron or other metals to be an exploration target.

## SUMMARY

The Stikine area includes diverse physical geography, several tectonostratigraphic terranes and lithic assemblages, and varied mineral potential. Historical information and the Bureau's preliminary mineral assessment of the study area indicate three areas with higher relative mineral potential: (1) Duncan Canal - Zarembo Island, (2) Groundhog Basin, and (3) Cornwallis Peninsula.

The greatest potential for hosting an economic mineral deposit in the Stikine area seems to be in the Duncan Canal - Zarembo Island area where the potential exists for Triassic-hosted volcanogenic massive sulfide (VMS) deposits. Currently there are 18 prospects or occurrences in this area with suspected VMS style of mineralization. They are situated along the eastern margin of the Alexander terrane, a similar tectonic position to the Greens Creek and Windy Craggy deposits of major significance, 100 and 250 miles respectively, to the northwest. The only significant mineral production in the Stikine area came from the Castle Island Mine, a VMS deposit that produced 787,000 tons of barite between 1966 and 1980 (Carnes, 1980).

The Groundhog Basin area has been the focus of mineral exploration for a variety of mineral exploration companies since the 1960's. The area hosts the potential for polymetallic replacement and polymetallic vein type deposits and porphyry molybdenum. Small, but high grade, mineralized intervals are widespread across the area. One of the most promising parts of the Groundhog Basin area is the intersection of a major shear zone that hosts base- and precious metals with a marble bed that also hosts mineralized rock. The projected intersection of the two units is covered by the Nelson Glacier.

The Cornwallis Peninsula area includes several replacement type deposits in Triassic host rocks. How these occurrences are related to the Duncan Canal - Zarembo Island area Triassic VMS deposits is not clearly understood. This relationship though, along with the widespread nature of the mineralized rocks, suggest the Cornwallis area has the potential for hosting an economic mineral deposit.

The Stikine area hosts a variety of other mineral deposit types and occurrences as well, but few have generated much exploration interest recently. These include vein gold, skarn, magmatic segregation, and veins of barite. In addition to the production from the Castle Island Mine, minor gold production came from the Maid of Mexico, Helen S, and Cascade mines.

This interim report presents the data collected by BLM personnel in the 5.7 million-acre Stikine area of Central Southeast Alaska during 1997 and 1998. It includes descriptions of over 90 mines, prospects, and anomalous mineral occurrences. A final report, which will present the results of the entire 1997 to 2000 mineral assessment study of the Stikine area, is proposed for publication in 2001.

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# **APPENDIX A - ANALYTICAL RESULTS**

# SAMPLING AND ANALYTICAL PROCEDURES

#### **Sampling methods**

Several types of rock samples were collected to evaluate mineral deposits in the Stikine area. Channel samples are rock fragments, chips, or dust from a continuous channel of uniform width and depth across an exposure. Chip channel samples are chips of rock taken in a continuous line across a relatively uniform width and depth of an exposure. Continuous chip samples are chips of rock taken in a continuous line across an exposure. Representative chip samples are discontinuous chips of rock taken across an exposure. Spaced chip samples are chips of rock taken at a specified interval across an exposure. Random chip samples are chips of rock taken randomly across an exposure. Grab samples are rock chips or fragments taken more or less at random from an outcrop, float, or mine dump. Select samples are rock chips collected from the highest grade parts of a mineralized zone.

Stream sediment and pan concentrate samples are collected in reconnaissance fashion to detect any anomalous metal values that may indicate the presence of mineralized rock in an area. **Stream sediment** samples are collections of silt- and clay-size particles taken from a stream bed. **Pan concentrate** samples consist of one pan full of gravel, sand, and/or fines reduced by standard panning methods. The resultant concentrate of fines is then analyzed.

#### **Analytical Methods**

All analyses were conducted by a commercial laboratory. Rock samples were dried, crushed to a minus 10 mesh, split and pulverized to minus 150 mesh. Stream sediment samples were dried and sieved to a minus 80 mesh. Pan concentrate samples were pulverized to minus 150 mesh. For samples analyzed by inductively coupled argon plasma (ICP) and atomic absorption spectrophotometry (AA), a 0.5-gram sample was dissolved in aqua regia for measurement. For samples analyzed by X-ray fluorescence (XRF), a 10 gram pressed pellet was prepared for measurement. For samples analyzed by instrumental neutron activation analysis (INAA), a 5-gram vial is measured.

Samples were analyzed for gold by fire assay pre-concentration of a 30-gram sample followed by an AA finish with results reported in parts per billion. For gold values exceeding the upper detection limit of 10,000 ppb, a gravimetric finish was performed and results reported in ounces per ton.

Silver, copper, lead, zinc, and molybdenum were analyzed by AA with results reported in parts per million. Those samples of copper, lead, zinc, and molybdenum that exceeded the upper detection limits were subjected to low-level assays consisting of a multiacid digestion and AA finish, with results reported in percent. Samples of silver that exceeded detection limits were

reanalyzed with gravimetric determination by fire assay using lead as a collector and results reported in ounces per ton.

Platinum and palladium were analyzed by fire assay pre-concentration of a 30 gram sample and an ICP finish with results reported in parts per billion.

Barium was analyzed by XRF with results reported in ppm. Those samples exceeding the upper detection limits (20,000 ppm) were further analyzed by wet chemical high-grade assay methods utilizing carbonate fusion digestion and measured by AA. This pressed pellet method is preferred due to the incomplete dissolution of barite ( $BaSO_4$ ) by standard aqua regia and multiacid digestion methods used for ICP and AA analysis. For selected samples, tin and tungsten were also analyzed by XRF to improve the accuracy of data in areas where the BLM presumed a higher potential for these elements exists.

Rare-earth elements (Ce, Eu, La, Lu, Nd, Sc, Sm, Tb, Th, U, Yb) were analyzed by INAA with values reported in parts per million.

Mercury was analyzed by cold vapor AA methods with results reported in parts per million.

The remaining 24 elements were analyzed by ICP with results reported as either parts per million or percent. In most circumstances, samples analyzed by this method that exceeded the upper detection limits were not reanalyzed, but were reported as greater than the corresponding upper detection limit. However, values above ICP detection limits were obtained for some samples using low-level assay methods consisting of a multiacid digestion and AA finish, with results reported in percent.

# MINIMUM DETECTION LIMITS BY ANALYTICAL TECHNIQUE

#### **Fire assay methods**

<b>Element</b>	<u>Minimum, ppm</u>	Finish Method
Au	0.005	atomic absorption (AA)
Au	0.17	gravimetric
Ag	0.7	gravimetric
Pd	0.001	inductively coupled argon plasma (ICP)
Pt	0.005	inductively coupled argon plasma (ICP)

## X-ray fluorescence spectroscopy (XRF)

<u>Element</u>	<u>Minimum, ppm</u>
Ba	10
Sn	4
W	4

# Instrumental neutron activation analysis

Element	<u>Minimum, ppm</u>	<u>Element</u>	<u>Minimum, ppm</u>
Ce	2	Sm	0.1
Eu	0.5	Tb	0.5
La	2	Th	0.5
Lu	0.1	$\mathbf{U}$	1
Nd	5	Yb	0.5
Sc	0.1		

# Atomic absorption spectrophotometry (AA)

Element	Minimum, ppm	
Ag	0.1	
Cu	1	
Hg (cold vapor)	0.01	
Mo	1	
Pb	2	
Zn	1	

# Inductively coupled argon plasma (ICP) spectroscopy

Element	<sup>.</sup> <u>Minimum, ppm</u>	Element	<u>Minimum, ppm</u>
Al	0.01 %	Mn	1
As	5	Na	0.01 %
Bi	5	Nb	1
Ca	0.01 %	Ni	. 1
Cd	0.2	Sb	5 -
Со	1	Sc	5
Cr	1	Sn	20
Fe	0.01 %	Sr	1
Ga	2	Te	10
K	0.01%	Ti	0.01 %
La	1	V	1 .
Mg	0.01 %	, W	20

# ANALYTICAL RESULTS FOR SAMPLES FROM MINES, PROSPECTS, AND MINERAL OCCURRENCES AND FROM RECONNAISSANCE INVESTIGATIONS

Analytical and sample data are presented in Tables A-1 to A-3. In addition to the analytical results, the following information is listed in the tables: prospect or reconnaissance map number, sample number, sample location, sample type, sample size, and a brief sample description. The results are organized by map number on the mines, prospects, and occurrences sample location map (Plate 1) and by reconnaissance map number on the reconnaissance investigation sample location map (Plate 2).

## Units of measure

Results are recorded under the element's chemical symbol in the following units, except where noted by an asterisk (\*). The results marked by asterisks were from samples whose concentrations of the corresponding element exceeded the limits of the analytical technique used for evaluation. These over-detection-limit samples were reanalyzed, commonly using a different analytical technique with different units of measurement.

Au, Pt, Pd - parts per billion (ppb)

Ag, Cu, Pd, Zn, Mo, Ni, Co, As, Ba, Bi, Cd, Cr, Ga, Hg, La, Mn, Nb, Sb, Sc, Sn, Sr, Te, V, W - parts per million (ppm)

Al, Ca, Fe, K, Mg, Na, Ti - percent (%)

If followed by an asterisk, Au and Ag values are recorded in ounces per ton (oz/ton) and Cu, Pb, and Zn, are recorded in percent (%). Asterisks in the Ba, Sn, and W columns indicate XRF analyses.

## Abbreviations

Sampl	e types:
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Rock Chip	
С	continuous chip
CC	chip channel
СН	channel
G	grab
RC	random chip
Rep	representative chip
S	select
SC	spaced chip

#### Stream Sample SS stream sediment

PC

pan concentrate
r

Sample sites:			
FL	float	TP	trench, pit, or cut
MD	mine dump	UW	underground workings
MT	mine tailings	OC	outcrop
RC	rubblecrop		-
Sample descr	iptions:		
@	at	int	intrusive
alt	altered	ls	limestone
ar	argillite	mag	magnetite
aspy	arsenopyrite	mg	medium-grained
bt	biotite	meta	metamorphic
br	breccia/brecciated	ml	malachite
calc	calcite/calcareous	mo	molybdenite
carb	carbonate/carbonaceous	msv	massive
cg	coarse-grained	peg	pegmatite
chl	chlorite/chloritic	ро	pyrrhotite
cp	chalcopyrite	porph	porphyry/porphyritic
dissem	disseminated/disseminations	ру	pyrite/pyritic
dol	dolomite/dolomitic	qz	quartz
fel	felsic	sed	sediment
fest	iron-stained	sc	schist
fg	fine-grained	sil	silicified/siliceous
gn	galena	sl	sphalerite
gp	graphite/graphitic	sulf	sulfide
gw	graywacke	vn	vein
gs	greenstone	volc	volcanic
hbl	hornblende	w/	with

ł

 Table A-1. Analytical results for samples from mines, prospects, and mineral occurrences

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Map	Sample	Location	Sample	Sample	Sample	Sample Description	* Ag	* Cu	* Pb	* Zn	* Mo
No.	No.		Туре	Size (ft)	Site		pb opt ppm		% ppm		% ppm
1	9604	Allied Mine Group E	С	0.1	00			.2 36		18	<1
1	9605	Allied Mine Group E	C	0.4	00		<5 <0			1993-1996 Service Scotter Scott	2
1	9606	Allied Mine Group E	Rep	1.4	OC		<5 <0		the second se	11	<1
2.1	9622	Cornwallis Peninsula	G		00		<5 <0		2 74	489	6
2.2	167	Cornwallis Peninsula	G	0.3	00			.5 4		8382	20
2.2	9623	Cornwallis Peninsula	C	1	00	A standard structure and a structure st structure structure st structure structure stru	<5 <0	<ul> <li>Over the contract of the second state</li> </ul>	en 19 milio de compansión en el cuide de la compansión de la compansión de la compansión de la compansión de la	319	<1
2.3	155	Cornwallis Peninsula	SC	2@0.5	00			.5 8		116	2
2.3	156	Cornwallis Peninsula	G	0.4	FL OC	Conglomerate w/ py, trace si		.3 66		553	15
2.3 2.4	9612 9611	Cornwallis Peninsula Cornwallis Peninsula	C Rep	2.3 0.6		Barite vn w/ fg py		.2 1 .7 2		78 2.0	<1 * 5
2.4 3.1	161	Keku islet	С	4	OC OC	Basalt dike w/ sl ladder vns		.9 15	. 7	2.0 8.8	22201120200000000000000000000000000000
3.1	9617	Keku Islet	C	4 2.4	00		the second second second second second second	.9 10 .8 19		6.0	Contraction of the Marchine State
3.1 3.1	9618	Keku Islet	C C	4.3	OC OC	- A second se Second second s Second second se		.0 19 .3 12	enantari e e varia con en varia de por	7773	2
3.1	9619	Keku islet	C	3	00			.3 21		5.1	· · · · · · · · · · · · · · · · · · ·
3.1	9620	Keku Islet	C	6	OC OC		000000000000000000000000000000000000000	.4 25	henes and the contract source construction of the	13.8	
3.1	9621	Keku Islet	č	2	ÖC .			.3 28	2.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	3.6	·····
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3.3	162	Keku Islet	č	1.75	ÖČ			1 27		6.1	
3.3	163	Keku Islet	Č	0.07	OC OC	andre and a many a construction of the second se	2000-000-000-000-000-000-00-00-00-00-00-	.2 17		14.2	COCOLOR COLOR COLOR AND A
3.3	164	Keku Islet	č	0.6	OC .			.5 16		31.2	
3.3	165	Keku Islet	Ċ	0.07	OC	an a ann anns chann a bhu nn anns an an an farfann a' chanf far an bhuarann a' ann a' a' a' far far bar an farf	And the first second in the second second	.6 18	(a) (1985) del que de la compacta de la compact de la compacta de la comp compacta de la compacta de la compact de la compacta de la compa	10.9	
3.3	166	Keku Islet	Ċ	0.1	OC			.3 11	a construction of the same	8.6	
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4	160	Little Creek	G	0.4	RC	Rhyolite w/ jasper	<5 <0	.1 (	6 22	101	<1
5.1	9616	Kuiu Lead-Zinc	RC		OC	Alt rhyolite	< 5 1	.6 4	4 302	287	<1
5.2	9578	Kuiu Lead-Zinc	S		TP	Dol w/ gn & sl	<5 21.7	<b>'2 *</b> 42	3 20.54	* 13.4	* 8
5.2	9615	Kuiu Lead-Zinc	S		TP	Dol w/ gn & black manganese oxide alt	10 313	.6 18	7 10.31	* 7.7	* 3
6.1	9613	Katherine	Rep	1.5	00		<5 12	.9 21	3 2355	3.2	* 2
6.2	157	Katherine	G	0.5	RC			.5 5		748	- 17
6.2	9614	Katherine	Rep	1	00	Sil zone w/ drusy qz, py	32 9	.6 49	9 605	735	14
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10	148	Saginaw Bay Barite	C	0.4	00		<5 <0	a bara com na companya do porto	9 4	8	<1
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11	9627 9625	Kadake Bay Kulu	SS	1	oc		<5 <0. 24 <0.			121 60	9 3
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No.         pper         St.         pper         St.         pper         St.         pper         St.         pper         PPI         pper         St.         pper         St.         pper         PPI         pper         St.         pper         pper         St.         pp	Map Sample		As Ba	* Bi Ca Cd	Cr · Fe Ga Hg	K La Mg Mn	Na Nb Sb Sc Sn	* Sr Te Ti V W * Pt Pd
1         BebCs         2         2         0         6         5         0.0         4         0.03         6         0.00         7         200         200 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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13       155       1       2       0       1       12       13       166       14       12       13       166       14       12       136       620       0.01       1       est       est       10       0.01       2       20       23       166       12       12       250       100       12       228       620       10       1       est       63       100       1       est       100       12       228       620       10       11       12       230       101       11       100       11       12       245       250       100       11       12       245       100       10       100	and second method and an internet of the	ana na mara ana ana ana indone a	a an an an an air an	والموارية وأروار والمراجع والمراجع المتحد والمحافظ والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمرا	na ( companya and and and an an a damar a damar a da	والاستعماد والمحافظ والمحافظ والمراجع أبريت والمراجع والمحافية والمحافظ والمحافظ والمحافظ		and a function of the second
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3.1       9619       44       49       0.3       80       903*       45       14       315       22       94       10       10       10       10       950       21       20.08       21       10       104       105       22       40.01       73       70.06       21       2       0.05       41       10       950       20       22       20.01       73       73       70	207282080 2004 2004 COLLEGED RECORD					7. COMPOSED COMPOSED CONTRACTOR CONTRACTOR (CONTRACT)		
3.1       9620       43       31       0.2       26       475       <5       2.2       1.02       49       4       13       1036       0.21       2       0.03       41       10       9       20       31       37       0.01       42       149         3.2       2614       12       15       0.3       12       30       4       6.2       1000       22       134       10       1149       0.05       10.6       1005       10       10       16       20       17       26       10       135       11       28       11       28       11       28       11       20       16       10       14       10       14       10       16       20       10       35       201       35       26       13       26       11       10       16       20       10       35       201       35       26       13       26       14       10       14       10       14       10       14       10       14       10       10       10       16       20       13       20       13       20       13       20       13       20       13       20	and a second						A CALL A REAL AND AND AND A CALL AND A CALL AND A REAL AND A REAL AND A CALL AND A REAL AND A	provide the second s
32       2614       12       15       33       162       31       26       03       10       146       005       0.04       10       12       59 $<$ 01       29       10         33       162       31       26       03       7       1085       <5       6.4       366.1       31       126       5       376       0.25       <1       0.04       170       0.6       10       12       59 $<$ 0.01       35       58         33       164       30       22       0.5       57       73.5       26       16       10       13       16       10       16       20       10       35       20       13       26       160       10       12       50       10       35       20       13       20       10       20       16       41       003       21       20       20       10       11       20       11       20       11       20       11       20       10       11       20       11       20       10       11       20       10       11       20       10       11       20       10       10       10       10 <t< td=""><td>- 44.4630 (2010) 2010 (2010) 2010 (2010) 2010 (2010) 2010</td><td>43 31 0.2</td><td>26 475</td><td>0. A 1977 S. A. A.</td><td></td><td>a de Xarena y a arte e a transferio de la composition de la composition de la composition de la composition de</td><td></td><td></td></t<>	- 44.4630 (2010) 2010 (2010) 2010 (2010) 2010 (2010) 2010	43 31 0.2	26 475	0. A 1977 S. A.		a de Xarena y a arte e a transferio de la composition de la composition de la composition de la composition de		
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7       152       2       <1       0.3       11       2227*       <5       0       <0.2       70       419       4       0.266       0.27       43       <0.01       <1       <5       <5       <20       9       <10       <0.01       2       <20         7       153       8       14       2.1       23       1079       <5	a president and a subsection of the sector o	in a second de la desta de la consecta de la second de la desta		na na serie na serie de la constant de la constant de la constant	and Martin a. In the Arthur Martin Contract Contraction of the			
7       153       8       14       2.1       23       1079       <5       0.7       0.3       11       5.47       5       0.299       0.09       30       0.21       4010       0.02       1       <5       <5       <20       62       <10       0.03       45       <20         8.1       9577       3       5       0.1       <5       70       <5       0.7       49.8       24       7.14       <2       34.46       0.06       5       0.31       15162       0.02       <1       72       <5       <20       70       <0.01       <1       <20         8.2       154       3       3       1.2       <5       4014<*       <5       5.1       123.4       15       4.1       6       6911       0.4       34       0.38       8800       0.03       <1       <5       <20       101       <10       <0.01       <10       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01       <0.01 <td>and a second second second second second second</td> <td>and a second second</td> <td></td> <td>A CONTRACTOR OF A CONTRACT OF A CONTRACT</td> <td>والمتحديق بمحمد موجد بالجراج بجريج الجراج الجراج الجراج والمعادي</td> <td>Wester to X in an order of the other of the state of the second second second second second second second second</td> <td>Construction and the second second second dependence on the second second second second second second second se</td> <td></td>	and a second second second second second second	and a second		A CONTRACTOR OF A CONTRACT	والمتحديق بمحمد موجد بالجراج بجريج الجراج الجراج الجراج والمعادي	Wester to X in an order of the other of the state of the second second second second second second second second	Construction and the second second second dependence on the second second second second second second second se	
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8.2       158       3       4       0.5       7       >20000*       <5       1.4       53.4       37       4.48       3       6.768       0.25       10       0.48       6880       0.03       <1       <5       6       <20       464       <10       <0.01       11       <20         9       9608       3       <1       0.2       54       14625*       <5       0.1       0.3       72       6.94       2       0.407       0.18       3       <0.01       <1       10       <5       <20       22       <10       <0.01       <1       <20         9       9609       3       <1       0.2       66       >20000*       <5       0.1       5       70       4.89       2       0.818       0.19       5       <0.01       <1       16       <5       <20       143       <10       <0.01       <1       <20       <20       <23       <23.07       0.04       <21       0.03       543<<0.01       <1       347       <5       <20       143       <10       <0.01       <1       <20       <23       <20.01       <10.05       963       0.02       1       <5       <20 <t< td=""><td>1000 000000000000000000000000000000000</td><td>an a ninu sinu ni ataratan dataan Charasa</td><td></td><td>no o regelativo o nativa e dene a cito o como meganica o</td><td>e na provinské provi</td><td>en sonto se e para su se e teste de la contra de la contra</td><td></td><td></td></t<>	1000 000000000000000000000000000000000	an a ninu sinu ni ataratan dataan Charasa		no o regelativo o nativa e dene a cito o como meganica o	e na provinské provi	en sonto se e para su se e teste de la contra		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.15 / TO 200 (200 (200 CO 106/2 / 2010/100) STORED 10/01		STATISTICS AND ADDRESS OF ADDRESS	elen interest and the second of an element of the second second second second second second second second second		CONSISTENT OF CONTRACT OF CONTRACT OF CONTRACT OF CONTRACTOR OF CONTRACT OF CO		The second se
9       9609       3       <1       0.2       66       >20000*       <5:0.01       5       70       4.89       2       0.818       0.19       5<<0.01       71       75       <0.01       <1       16       <5       <20       58       <10       <0.01       <1       <20         9       9610       3       3       0.1       449       >20000*       <5       2.4       117.8       36       1.35       <2       3.07       0.04       21       0.03       543       <0.01       <1       347       <5       <20       143       <10       <0.01       <1       <20         10       148       3       2       0       <5       2.0       1.17.8       36       1.35       <2       3.07       0.04       21       0.03       543       <0.01       <1       347       <5       <20       143       <10       <0.01       <1       <20         10       9607       <1       <1       0       <5       >20000*       <5       12       <0.2       4       0.37       <2       2.0.11       <0.01       2       7       <5       <20       864       <10       <0.01       3	- 30.00.00000000000000000000000000000000	(1) (1) (2) (2) (4) (4) (5) (2) (2) (3) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5		a da oliver kan kan kan kan kan da siya siya siya siya da kan sa siya siya siya siya siya siya siya s	CCC (e)e000 ( ) (CC) 2001 2001 2000 ( ) (CCO) (CC) 2001 2001 2001 2001 2001 2001 2001 200	Negel up waters infested effected in one data counter out on the second state of the second state of the second		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Construction of the second		a contra program a successive program and a successive succes			n an an the second second state of the second s		and the second
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 9610	3 3 0.1	449 >20000	* <5 2.4 117.8	310.001010 (https://doi.org/10.00000000000000000000000000000000000			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 148	3 2 0	<5 >20000	* <5 6.2 <0.2		representation and a contracts in a Machinesian science is and the Appendix Representation of the		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 9607	<1 <1 0	<5 >20000	* <5 12 <0.2	4 0.37 <2 2.011	<0.01 <1 0.16 430	0 0.01 2 7 <5 <20	864 <10 <0.01 3 <20
11       176       5       5       0.2       6       1050 *       <5	- Market 2010 Control and the second s	14 15 1		n an chuir an tha ann a' chuir a' chuir a' chuir an tha an th	n ann a' Start ann an 1997 ann ann an 1997 ann an 1	i 0.17 2 0.98 700	) 0.09 <1 <5 14 <20	228 <10 <0.01 96 <20
11       9627       5       5       0.2       6       2641 *       <5	the more thanks have a server are to the table states and		and a second			VINTER AND A DESCRIPTION OF A DESCRIPTIO		1787 <10 <0.01 37 <20
12.1 9625 6 5 1.1 9 59 <5 0.3 <0.2 14 3.5 4 0.052 0.08 19 0.37 146 0.05 <1 <5 5 <20 24 <10 0.03 64 <20	V010/00/00/00/00/00/00/00/00/00/00/00/00/	and an an an experimentation of the second		an ang ang ang ang ang ang ang ang ang a	1. 2. 2. Jan 19. 19. 19. 19. 19. 19. 19. 19. 19. 19.	na na mana na manana ana ang manana na manana na manana na manana na manana na mang manana na mang ma		
	AND THE REPORT OF A DESCRIPTION OF A DESCRIPTION	services and the second dependence of the	an de konsteller werden einen eine werde stederen um son	concentration of the second	en es en en la set de la della serie la set en en en esta set en en esta en esta en esta en esta en esta esta e			
12.1 9626 4 6 0.9 <5 159 <5 0.3 <0.2 9 3.76 4 0.119 0.04 5 0.18 531 0.02 <1 <5 <5 <20 34 <10 0.07 109 <20	3.1000000000000000000000000000000000000	2020 C. 1999 C. 1999 C. 2010 S. 2020 C.	a na manana manana any amin'ny amin'ny amin'ny amin'ny a	n de la sector de l'antidad y frantskom version de la sector de la sector de la s		2. The second second second to the second		
	12.1 9626	4 6 0.9	<5 159	<5 0.3 <0.2	9 3.76 4 0.119	0.04 5 0.18 531	0.02 <1 <5 <5 <20	34 <10 0.07 109 <20

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Мар	Sample	Location	Sample	e Sample	Sample	Sample Description		* Ag	* Cu	* Pb	* Zn	* Mo
No.	No.			Size (ft)	Site		Au ppb c		opt ppm			
12.2	9624	Kulu	SS			Metaseds outcrop in stream	18	<0.1	17	25	93	<1
12.3	168	Kuiu	SS			Metased float in stream	<5	<0.1	16	i 18	111	<1
12.3	169	Kuiu	SS			Very small stream w/ no exposed bedrock or float	<5	<0.1	15	i 14	111	<1
12.3	170	Kuiu	PC			Panned fg seds found in old box	2255	0.2	! 12			3
12.3	171	Kuiu	SS			Metased float in stream	<5	<0.1	14	11	100	<1
12.3	172	Kuiu	SS			Very small stream w/ no exposed bedrock or float	<5	<0.1	16	10	96	<1
12.4	173	Kuiu	SS			Very small stream w/ no exposed bedrock or float	12	0.2	! 16	23	130	<1
13.1	9628	Point Saint Albans	С	0.5	OC	Gw w/ py band at margins of dike	5535	33.6	6 313	152	8409	3
13.2	178	Point Saint Albans	G	0.3	00	Qz lens w/ py	<5	8.2	. 64	123	214	4
13.2	179	Point Saint Albans	С	0.1	OC	Qz lens w/ blebs of sl	<5	6.8	25	62	1.7	* 4
13.2	180	Point Saint Albans	C	0.4	00	Qz vn w/ aspy, py, sl, gn	22	161.7	. 80	9834	2.4	* 2
13.2	9629	Point Saint Albans	С	2.4	OC	Fault zone in gw w/ qz & sulf	42	16.1	24	764	7343	4
13.2	9630	Point Saint Albans	С	1.1	OC	Fest shear zone w/ qz & sulf	7	34.7	45	2106	2279	2
13.2	9631	Point Saint Albans	S	0.4	OC	Sheared gw br w/ gn	20	342.2	. 30	8.15	* 1.1	* 3
13.3	177	Point Saint Albans	Rep	1.5	OC	Fest qz-calc zone w/ py, fg sl	91	5.7	16	381	2186	2
14	2363	Pinta Point	Rep	11	OC	Gp sc & chert w/ msv & dissem sulf	43	0.8	143	20	624	52
14	2364	Pinta Point	S		OC	Gp sc/slate w/ seams of py	78	2.1	249	44	878	52
14	2391	Pinta Point	S		OC	Fel sc w/ layered sulf	81	0.9		38	489	51
15	3710	Kake Area Road System	S		TP	Py in narrow alt shear zone in hbl diorite	13	1	56	5	18	27
15	3711	Kake Area Road System	S		TP	Msv cp, py in hbl diorite	454	30.6	a sana ana ang ang ang ang ang ang ang ang	5111-74-01 <b>2</b> 7250-002200-0110-0128	886-8638633 - 676635, 258653	
16	3705	Kake Area Road System	S		OC	Msv barite w/ gn, st	49	13.1	66	1.02	* 3.0	* <1
16	8671	Kake Area Road System	S		OC	Barite w/ qz, sl, trace gn	27	3.3		. 19 19 99 1 1 1 1 1 1 1 2 5 . <b>9</b> 19 19 19 19 19 19 19 19 19 19 19 19 19	601.557.567.57.500.00.000.000.57.572	noodh for fraghuar agus con uorre.
17.1	3728	Gunnuk Creek	SS			Ar outcrop in stream w/ar, gs & minor qz float	<5	<0.1	25	12	119	<1
17.2	3729	Gunnuk Creek	SS			Ar outcrops in stream w/ar & chert float	<5	<0.1	8 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1		6666 <b></b>	\$2855555555555555 million memory for 55467
17.2	8688	Gunnuk Creek	SS			Ar outcrop in creek	<5	0.2		Color Methodal Contractor Contractor	A second second second second second	a succession and a second second
17.3	3730	Gunnuk Creek	SS			Ar outcrops in stream w/ ar & chert float	6	<0.1	2, 2000C20, 20126, 2000C20, 2000C20,		tergene i de nom entregene jessen i	1.1014/07/15/2010/2010/2010/2010
17.3	8689	Gunnuk Creek	SS			Ar float in creek	<5	0.2			and an excitence of the second	CONTRACTOR AND A DESCRIPTION OF A DESCRI
18	3700	Kake Area Road System	Rep	(1812) (1812) (1839) (1839) (1839)	TP	Band of py, sl, cp in sil ar	1135	30.5	ere neer neeren - hereine een herdekedelder	c. and consider notice and the state of the	5.4	1943 No. 94 686 696 100 100 100 100 100 100 100
19.1	2813	Kane Peak	RC	2	OC	Hornblendite w/ po	2	<0.1				
19.1	2814	Kane Peak	C	197 <u>7</u> 599-0710-0160	OC	Fest hornblendite w/ po	3	<0.1	(8) draw as real to the 2000 PM 2000 K		1960 Contract Contraction (	
19.2	392	Kane Peak	Rep	3	OC .	Hornblendite w/ mag, py	<5	<0.1	and an experience of the second second			and the second second second
19.2	393	Kane Peak	SS	80 <b>5</b> 00000000000000000000000000000000000		Hornblendite outcrops in stream	17	<0.1	9773255 - 1564 - 56555 - 86 - 1260 - 166		0000690 N 6176947 Start 1	C. 1. 100 (100 100 100 100 100 100 100 100 10
19.2	394	Kane Peak	SS			Hornblendite outcrops in stream	19	<0.1	server and an an an an an and an and an and an			
19.2	395	Kane Peak	SS		912-110-108-04-8-6	Hornblendite outcrops in stream	17	<0.1 <0.1				CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT CONTRACTOR CONTRACTOR CON
19.2	396	Kane Peak	SS			Homblendite outcrops in stream	15	<0.1			ALCONTRACTOR AND A CONTRACTOR AND A CONTRACT	
19.2	2810	Kane Peak	G	ma, 68 63 8.2 († 14	RC	Homblendite	6	<0.1	- un uscontro autor representantes	2007.00.000.000.000.000.000.000.000.000.	segn den son de son de sou a d	(1) (0038830) (Sec. (20360) (2011)
19.2	2811	Kane Peak	G	2	OC OC	Homblendite w/ po	8	<0.1				
19.2	2812	Kane Peak	C	2	OC OC	Homblendite w/ po	6	<0.1		recreation concerns are popplicated and	2725-0009 danéa apananang iangga	あたち だんごうせん せいせいせいがく
19.3	397	Kane Peak	SS	- -		Granite & metased float in stream	15	<0.1		and a second		TANK THE A AND DESCRIPTION OF A DESCRIPTION
19.3	398	Kane Peak	SS			Granite & metased float in stream	10	<0.1	000000000000000000000000000000000000000			24061510902090000000000000000000000000000000
20	2803	Portage Bay Pit	Rep	20	ТР	Int w/ po	14	and a second state of the second state of	W115	CONTRACTOR CONTRACTOR STATES		
20	2803	Portage Bay Pit	na assesse the second	20 12	TP	Int w/ po	10 <5	0.7	52.751971007500000007396778,0079278*	191791792990170097000000000099998388		an de Marcold, Swither des Transier and L
20	2804		Rep	8	TP		-	0.2	district and the second second second			
20	2805	Portage Bay Pit Portage Bay Pit	Rep	8	TP	Int w/ po	6	0.2	아니 가 가지 않는 것이 같은 것이 없는 것이 없는 것이 없다.	un de laces, l'épupular cour un de 365	영수는 아이에 가지 않는 것을 했다.	
20	3673	in the second	Rep	U		Int w/ po	-	0.3		· · · · · · · · · · · · · · · · · · ·	38	
2016 013200026-00005	3673	Portage Bay Pit	S		TP	Diorite w/ banded sulf including po & cp	74	1.6		62000000000000000000000000000000000000	212 B. B. D. B. D. B.	
20 20		Portage Bay Pit	S	g gig an ar s	TP	Fg sc w/ sulf in shear zone along margin of int	3271	13.9	and the second		1.4	
20	3675	Portage Bay Pit	S		RC	Int w/ bands of msv sulf	36	1.6	2067	41	77	37

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Мар	Sample	Ni	Со	Al	As	Ba	* Bi	Са	Cd	Cr	Fe	Ga	Hg	ĸ	La	Mg	Mn	Na	Nb	Sb	Sc	Sn	* Sr	Te		V	W * 1	Pt Pd
No.	No.	ppm	ppm	%	ррт	ppm x	rf ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ррт	ppm			xrf ppm				pm xrf p	pp ppp
12.2	9624	8	328-2750000	1.9	<5	238	<5	3 - <b>193</b> 4 - 193	0.2	15	6.51	80033004904	0.187	0.04	9	0.32	4138	0.02	(353) (36) (36) (36) (36) (36) (36) (36) (3	<5	360 G C C C C C C C C C C C C C C C C C C	<20	31	<10	19 C.C. (19 C. (19 C	(2001) Al-2002 (2	<20	
12.3	168	11	23	2.3	<5	Charles and the second ended	<5	deres services and	0.2	18	5.64	constraine	0.195	0.05	10	0.61	1946	0.02	<1	<5		<20	49	enautocontector (	0.11		<20 -00	
12.3	169	11	22	2.2	<5	1965 Sect 2006 Augusta 2006 1976 Socie	<5	000000000	<0.2	17	5.08	0.000000000000	0.217	0.05	10	0.55	1893	0.02	<1	<5	Surgers and an	<20		<10	0.09	80000000000000	<20	20052030
12.3	170	12	13	1.7	<5		<5	accordence in the second	<0.2	and the second second	3.4		0.154	0.1	10	0.38	758	0.07	5	<5		<20	27		0.09		<20 <20	
12.3	171	9	d Synanic Mar	1.5	<5	99999999999999999999999999999999999999	<5	1010000 (010)	0.3	14	4.93	e)eesseeree.ees	0.112	0.07	12	0.36	3053	0.03	<1	<5	000000000000000000000000000000000000000	<20	00000000000000000000000000000000000000	<10 <10	0.03	SC 63866 138993	<20 <20	
12.3	172	11	13	1.6	<5	All the second of the second second	<5	0.6	0.3	17	4.45	5	0.64	0.1	19	0.63	891	0.02	<1 <1	<5 <5	www.www.com.com	<20 <20	55 118	000000-000-000	0.05		<20 <20	202222000
12.4	173	15	18	2.1	<5	CONTRACTOR - 26202002000000	<5	4.2	0.8 95.1	17 65	5 7.09	4	0.109	0.05	16 3	1.08	1696 1815	0.03	<u>∼</u> ≀ <1	~0 69	8.9652220000000	<20	35	10010000000000000000000000000000000000	<0.00	a ne de care de la	<20 <20	2020002020
13.1	9628	3	9	0.6	1.55% 70	2444 * 140 *	17		95.1 1.4	in an analysis a	3.65		0.089	0.33	د <1	0.29	477	0.03	<1	61	<5	<20	82	and the second second			<20	NG 62 M(4.)
13.2	178	13	98550C000	0.3	357	140 61 *	<5 <5	*********	123.1	137	2.11	~2 <2	1.655	0.10	 1	0.59	561	0.04	<1	30	~5 <5	<20	51	01.00000000000000000	<0.01 <0.01	900 00 000 C 1000	<20	2068000000
13.2	179	12	2 6			<10 *	>> <5	in the second	171.1	66	4.09	~2	2.71	and the second second	<1	0.39	1407	0.02	1	0.44%	~5 <5	<20	226	Section 200 and	<0.01	29	20	A. 80 10 10
13.2	180 9629	63639999999 <u>9</u> 96	0 4	0.0	7432	×10 350 *	<5 <5	1258.855 	32.6	64	4.64	<2	1.01	0.00	י - 3	1.14	1780	0.02	<1	398	~5 <5	<20	159	0.0000000000000		er en 202 (C. 17	<20	262020000
13.2	9629 9630	9 10		5 6 5 C 100	annen er anne	117 *	~0 <5	10-10-10 Miles 10	<0.2	64	7.86		0.252	and the second second	3	1.3	1169	0.03	<1	275	7	<20	130	1112003-000203	contractor and the second		<20	
13.2 13.2	9631	10 4	3	0.5	1.37%	106 *	<5	0.000 o.000	123.4	60	4.67	90300000000000	2.249	0.18	2	1.18	1275	0.03	<1	530	<5	<20	144		20. 9000 AND AND AN	Sico costi ficto	<20	101030000000000
13.2	177	6	5		and the second second	119 *	~5 <5	0	0.4	65	4.83	and a state of the	0.308	0.13	<1	1.06	1430	0.02		254	<5	<20	176	and the second	a da da da da da da		<20	
14	2363	278	21	1.8	226	952 *	<5	service contraction of the	3.9		20.07	<2	0.33	0.14	3	1.69	1019	0.01	5	12	8888 B (T) (	<20	91	<10	2003-00000-0000-0000	Case in Courses	<20	- <u> </u>
14	2364	427	13	111111000000000	287	746 *	<5		5.4	000000000000000000000000000000000000000	17.41		1.359	0.13	2	0.42	20110000-000010000-000000	<0.01	1	27	<5	<20	151	<10	<0.01	78	<20	
14	2391	261	24	1.2	279	where a constraint of the second	<5		2	500 CLC 2780 CC	24.87	<2	ohone crasses o	0.17	3	1.05	466	0.01	<1	7	<5	<20	11	<10	<0.01	90 ·	<20	N. 2004 St. 28 Kin W. 7
15	3710	23	128	0.2	<5	monaut SA - ST More V	ana	0.04	0.4	actor according	40.54	<2		0.01	<1	0.03	26	<0.01	<1	<5	<5	<20	12	<10	<0.01	7 •	<20	828 S.S.
15	3711	37	35	1.1	<5	0.0000004.000004.0004.000	20	0.3	4.1	107	17.41	<2		0.06	<1	0.61	246	0.01	<1	<5	<5	<20	28	12	0.19	98 ·	<20	
16	3705	3	1	0.1	16	48.37% *	<5	0.4	197.5	9	0.68	6		0.03	<1	0.18	200	<0.01	<1	11	<5	<20	109	12	<0.01	2	27	
16	8671	3	1	0.1	10	46.12% *	<5	0.7	188.6	15	0.54	5	1.329	0.03	<1	0.28	389	<0.01	<1	<5	<5`	<20	192	12	<0.01	2	26	
17.1	3728	23	12	1.5	9	1010 *	<5	0.4	0.2	28	3.45	3		0.12	8	0.67	1753	0.02	<1	<5	<5	<20	25	<10	0.05	50 •	<20	
17.2	3729	24	13	1.6	8	953 *	<5	0.4	0.2	28	3.31	3		0.11	8	0.69	1696	0.01	<1	<5	<5	<20	19	<10	0.05	48 ·	<20	
17.2	8688	91	18	1.8	16	283	<5	0.4	0.8	57	3.99	3	0.099	0.12	9	0.99	2182	0.01	<1	<5	<5	<20	18	<10	0.03	(2000-00 KONC)	<20	
17.3	3730	48	16	2	9	993 *	<5	0.8	0.5	45	4.11	3		0.2	9	1.16	1713	0.02	<1	<5	<5	<20	42	<10	0.09		<20	ea calaite de enclarito
17.3	8689	34	14	1.7	11	987 *	<5	0.4	0.3	35	3.77	3	0.097	0.12	8	0.77	2050	0.02	<1	<5	<5	<20	22	<10	0.04	20100000000	<20	
18	3700	16	44	0.8	412		- 33	0.1	196.1		25.41	4		0.05	<1	0.35	496	0.01	<1	6	an a	<20	8	a da	<0.01	16	47	end consectors steps:
19.1	2813	111	67	0.2	<5	10 *	<5	and solution	<0.2	C 100 C 200000	2.31	8. See 9. Se	0.018	0.03	<1	2.02	154	0.02	1	<5	000000000000000000000000000000000000000	<20	1981 (2019) - Sanata ang ang ang ang ang ang ang ang ang an	<10	0.01	e e en an	2022/24/96/96/02/24	<5 2
19.1	2814	177	68	0.2	6		<5		<0.2	00.000.000	4.4	a a secondaria	0.028	0.02	<1	6.74	486	0.02	2	<5		<20	ar ar a con a bar	<10	0.01	a stores Austra	V36 V 11 V 2010 2020 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 - 2020 -	11 12
19.2	392	42	39	3	<5	1996-1997-1997-1996-1997-1995-	<5		0.3	(100100.000.000.000	8.75	039,659,669,669,67	0.028	1.18	<1	2.71	797	0.48	31	<5	X	<20	<pre>ccoss.ccc.cross.cccsco</pre>	<10	1995 - Constantin Santa	0.7000000000000000	<20	~
19.2	393	214	33	0.5	<5		<5	A	<0.2	sa cronin e eva	3.25	and and	<0.01	0.04	4	3.97		< 0.01	<1	<5		<20		<10	0.04			24 17
19.2	394	316	80	1	5		<5	0.3	<0.2	5.2.511052200500	5.45	<2	8 (2010) TO 10 10 10 10 10 10 10 10 10 10 10 10 10	0.12	3	4.82	2162	0.03	1	<5	orenesse costo	<20		<10	0.06	0.022.022.022.022	06505000000000000000000000000	34 18
19.2	395	275	43	0.3	<5	an area a constant d'a area	<5	6. en	<0.2	77	3.99		< 0.01	0.07	ener reserve or	6.63	screeces tergenet environ.	< 0.01	1 	<5 >E	100000000000000000000000000000000000000	<20	a a george of the contract of the	<10	0.03	mark come		22 17 11 13
19.2	396	259	47	0.8	<5	349 *	<5	an 1880-1864	<0.2	95	4.22	*******	0.023	0.23	3	6.04	568	0.06	<1	<5		<20	9 276	<10 <10	0.07	0.0000000000000000000000000000000000000	2009/60/00000/0000/20101/63	11 13 <5 <1
19.2	2810	6	32		<5		<5 		0.3	13 70	8.73	6	0.02	0.76	<1 <1	2.18 1.9	648 635	0.41	36 22	<5 <5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<20 <20	181	<10	and the second second	Sector sector		<5 5
19.2	2811 2812	47	59	2.2	<5 <5	2002 S S 2012 X 10.000 C 803	<5	one prostations	0.3		8.45 7.43	5660 (2007) (20)	0.056	0.72	<1	2.21	723	0.37	22	~5 <5		<20	66.000 (1998) (T. C.	<10	and a second	232363	9779-72 (Marco e 979)	<554
19.2	0.92 moder 10.02 Conservation	35	41	2.5 0.6	<o 7</o 	519 *	<5 <5		0.2 <0.2	24	2.69	and a second second	<0.044	0.07	8	0.74	284	0.07	23 <1	<5		<20	30	e en sent differen	0.07	9 - 10 - 10 - 10 - 10 - 10	VAN NOONAN MARY S	16 13
19.3	397 398	24 15	6	1.1	/ <5	100000000000000000000000000000000000000	<5	000000000000000000000000000000000000000	<0.2	2000.00000000	2.09	0.000000000000	0.033	0.07	0 4	0.74	284 319	0.07	<1	~u <5	(6)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)	<20	1935 (1937) (1937) (1937) (1937) (1937)	<10	0.09	2470 M C 12 C	000000000000000000000000000000000000000	15 16
19.3	2803	15 27	16	1.1	<ol> <li>17</li> </ol>	526 *	<5 <5	1.2	-0.2	63	2.10	e e compositore	0.033	0.17	4 9	0.76	369	0.13	~ i 1	~5 <5		<4	an waarabeteen waara	and the second second	0.03	46	~20 6 *	
20 20	2803	21 9	16	0.8	13	526 1089 *	<5 <5	4 C.26 G.200 -	0.0	40	1.85	0.000.000.000	0.075	0.15	10	0.00	209	0.09	<1	-u <5		<4	0.0000 N.O.T.T.	<10	0.14	40 34	<4 *	e son the source of
20	2804	24		1.6	7		<5	0.9	<0.2	64	2.85		0.027	0.20	5	0.8	499	0.09	1	-5 <5	e se sector com	<4	and the second second second second	anan contra com	0.12	40	<4 *	States at
20	2805	23	17	0.9	, <5	949.899.9359.935 <u>9</u> 49.439.4263	-5 <5	345/0769/1783	<0.2	44	2.16	87 (88) X (7X <b>8</b> 9	0.016	0.23	10	0.19	147	0.0	1	<5	ana sa	<4	かわれるようでものですが	<10	0.15	34	4 *	1000000000000
20	3673	35		0.7	17	98 *	<5	1.2	<0.2	74	>10		0.039	0.09	7	0.14	245	0.04	<1	<5		7	an a sur a succession of the	<10	0.11	21	6 *	
20	3674	30	51	0.5	9762	203 *	<5	0.8	173	77	>10	<2	0.82	0.00	<1	0.26		< 0.01	1	10	2020/09/09/09/09/00	، 11 ۱	naaaan ahan	<10	0.04	11	<4 *	ANN IN BUILDER
20	3675	74	a a set estas	0.7	3/02	253 *		0.9	<0.2	and a second second	>10	and an		0.24	13	0.18	167		2	<5	an an the second se	6		e son an anna an	0.09	20	<4 *	
	0010	1996 (1997 - 1997 -		90 <b>0</b> 70000				~.~					200 <b>7-0-7</b> 0						a (1967 <b>7</b> )	Carcara de antigad					inite and the second	್ರಸಾಮಾರಿಗಳು		.go.010-3-000, *

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Мар	Sample	Location	Sample	Sample	Sample	Sample Description		* Ag	* Cu	* Pb	* Zn	* Mo
No.	No.		Туре	Size (ft)	Site		ppb		opt ppm		% ppm	% ppm
20	3678	Portage Bay Pit	S		TP	Diorite? w/ seam of mo & dissem po & cp	16	0.6			41	855
20	3679	Portage Bay Pit	S		TP	Fault gouge in diorite	7	0.3			98	19
20	3680	Portage Bay Pit	S		TP		817	2			1.2	
20	3681	Portage Bay Pit	S		TP	Int w/ concentrated sulf in sil zone	9	0.4	2019-002-252 - 2019-000 - 000-000-000-000-000-000-000-000-		67	7
20	3682	Portage Bay Pit	S	nichana dilitikiti	TP	Calc-silicate w/ minor sulf	<5	0.3			89	5
21.1	415	Northern Copper	С	2	UW		389	37.7		the second concrete the state	631	2
21.1	416	Northern Copper	CC	0.75	UW		332	23			772	3
21.1	417	Northern Copper	Rep	0.25	00	· · · · · · · · · · · · · · · · · · ·	440	15.1	00000 000000000000000000000000000000000	• (c)	947	2
21.1	2832	Northern Copper	С	3	UW		144	11			370	4
21.1	2833	Northern Copper	С	2.5	UW		152	15.7			801	5
21.2	3677	Northern Copper	S		MD		24	8.2			1164	<1
21.2	3684	Northern Copper	С	5.2	UW		<5	<0.1	11:		166	3
21.2	3685	Northern Copper	С	0.6	UW	Msv sulf layer in chl sc	10	11.5			1427	2
21.2	3686	Northern Copper	С	1.9	UW		14	3.8			639	3
21.2	3687	Northern Copper	С	2.2	UW	Sil zone w/ sulf veinlets	<5	0.3			217	3
21.2	3806	Northern Copper	С	1.4	UW		29	9.3			723	<1
21.2	· 3807	Northern Copper	С	5	UW	Chi sc in hanging wall of msv sulf layer	<5	0.5			268	2
21.2	3808	Northern Copper	С	0.5	UW	Msv po w/ cp in chl sc	25	7.2			887	3
21.2	3809	Northern Copper	С	0.8	UW	Msv po w/ cp in chl sc	26	8.7			1156	4
21.2	3810	Northern Copper	С	2.7	UW	Sil phyllite	<5	<0.1	171	<2	369	22
21.2	3811	Northern Copper	С	0.4	UW	Msv po w/ cp in chl sc	28	10.5			1630	7
21.2	3812	Northern Copper	C		UW	Chl sc w/ minor sulf	<5	0.2	310	) 3	647	3
21.2	3813	Northern Copper	С	1.3	UW	Chl sc & gs w/ patchy msv po, cp	16	9.9			1196	14
21.2	3814	Northern Copper	C	4.8	UW		13	0.2			483	33
21.2	3815	Northern Copper	С	2.2	UW	Msv gs w/ minor sulf	<5	<0.1	- Indone and the control of the loss of the	AND INCOMENDATION OF A DESCRIPTION OF A	90	2
21.2	8659	Northern Copper	С	1.5	UW	Msv sulf of po & lesser cp	19	6.2	1.9	13	1302	2
21.2	8709	Northern Copper	С	0.6	UW	Fault zone w/ msv py, po	<5	0.4	2764	12	200	<1
21.2	8710	Northern Copper	С	2	UW	Gs w/ py, po, trace cp	6	1	3313	i 11	584	2
21.3	104	Northern Copper	G	0.5	TP	Fest gs w/ py, cp	18	2.6			118	<1
21.3	105	Northern Copper	S	0.5	MD	Msv po, py, cp	6	7.1			341	<1
21.3	106	Northern Copper	SC	20 @ 1.0		Gs w/ sulf zones of cp, py, po	28	6		and the second se	191	<1
21.3	107	Northern Copper	Rep		MD		21	8.5	8	-10.0114013010000010000000000000000000000	661	<1
21.3	108	Northern Copper	Rep	3	MD		<5	1.4			1.2	
21.3	266	Northern Copper	Rep	2.5	TP		<5	1.2	1429	84	7961	<1
21.3	267	Northern Copper	Rep	2.2	TP	Gs w/ dissem & msv sulf	12	1.1			179	<1
21.3	268	Northern Copper	S		MD	Gs w/ dissem & msv sulf	6	1.7	20.02000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2		83	<1
21.3	413	Northern Copper	SC	3 @ 0.25			<5	<0.1			104	<1
21.3	414	Northern Copper	G	0,4	RC		<5	0.8	(g) in Ghoudder Constraints, Report		64	2
21.3	2809	Northern Copper	Rep	1.8	OC		<5	0.2		an an an ann an an an ann ann an an an a	59	31
21.3	2831	Northern Copper	С	2	TP		<5	3.3	2200220-00200-00200220022002200220022	C 2004 0 2004	9398	<1
21.3	3665	Northern Copper	G		RC		12	<0.1			120	3
21.3	3666	Northern Copper	S		OC	and the second	67	32.6	3.5	i* 39	299	5
21.3	3667	Northern Copper	S		OC		11	4.4			379	2
21.3	3714	Northern Copper	С	1.8	TP	Layer of msv sulf in gs	7	6.3	1.4	.* 12	837	2
21.3	3715	Northern Copper	С	1.5	TP		12	3.3	4028	6	2.4	
21.3	3716	Northern Copper	С	1	TP	Gs w/ cp, mag	13	2.9	5221	8	1.2	* <1
21.3	3717	Northern Copper	С	5	TP	Msv sulf & skarn in gs sc	9	2.2	5342	10	147	2
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Мар	Sampl		Со	Al	As	Ba *	Bi		Cd	Cr	Fe	Ga	Hg	к	La	Mg	Mn	Na	Nb	Sb	Sc	Sn *	Sr	Te	Ti	V W	* Pt Pd
No.	No.		ppm		ppm			%		ppm	%	ppm	ppm		ppm	%	ppm	%	ppm	ppm_	ppm	ppm xi		ppm		and the second	xrf ppb ppb
20	3678	17		0.6	5	485 *	<5 	1.1	0.3	57	2.86	<2	0.057	0.2	9	0.12	183	0.08	1	<5	<5 	<4 *	101		0.13	32 <4	
20 20	3679 3680	28 36	17 58	000000000	15 5	624 * 19 *	<5 <5	1.8 3.3	<0.2 57.5	61 117	3.66 >10	<2	0.06	0.21	6	1.34 0.21	842 1789	0.06	1	<5 <5	<5 <5	<4 * 5 *	225		0.13	50 <4 35 <4	
20	3681			1.3	ວ <5	447 *	-> <5	3.3 0.6	<0.2	67	3.9	commences access	0.015	0.02	4	0.21	293	0.02	1	<5	<5		39		0.12	42 <4	AA
20	3682	1365	6 D. M. S.	0.4	15	<10 *	~5	0.5	<0.2	537	2.1	0000800030030	0.037	4. Sector 4. Sector 4. Sector		1.3	C20210000000000000000000000000000000000	<0.01	<1	-0 <5	~0 <5	<4 *	SCC 2010000000000000000000	Sumblete & Accidite	0.01	5 <4	1.4.5.8.0.000 (0.0.000) (0.0.000)
21.1	415	26	a da ser a ser		<5	201 *	6	1	6.5	and the second	30.05	lata na sarawana	0.167	ander a second	<1	0.71	637	0.01	<1	<5	<5	<20	www.comercolor	and the second	0.03	28 <20	
21.1	416	38	9 mai 2562 an	2.3	<5	700 *	16	0.6	6		21.01	CONTRACTOR STORAGES	0.053	0.22	<1	1.52	1052	0.02	<1	<5	<5	<20	8	eddigelaetholdaeth	0.07	56 <20	
21.1	417	70	562	0.9	18	238 *	17	0.1	6.5	100 CO 100 CO 100 CO	27.94	0.000.000.000	0.052	0.04	<1	0.53	270	0.01	<1	<5	<5	<20	6	<10	0.02	20 <20	72
21.1	2832	32	139	1.3	<5	486 *	14	0.7	3.2	19	18.22	<2	0	0.12	<1	0.92	793	0.08	<1	<5	<5	<20	18	<10	80.0	45 <20	
21.1	2833	35	145	0.9	<5	115 *	20	1.7	5.6	<1	20.7	<2	0.061	0.07	<1	0.59	992	80.0	<1	<5	<5	<20	29	<10	0.04	33 <20	
21.2	3677	21	157	0.6	<5	119 *	<5	0.4	3	20	>10	<2	0.031	0.07	<1	0.39	454	0.03	<1	<5	<5	<20	6	<10	0.02	14 <20	
21.2	3684	48	a waa waa ah	2.9	<5	1101 *	<5	1.9	<0.2	85	5.14	0020000000000	0.099	0.35	7	2.28	1003	0.05	1	<5	<5	<20	edis Construction reconstruction	000000000000000000000000000000000000000	0.07	90 <20	
21.2	3685	e a environ a sol	and the second second	0.8	<5	237 *	<5	0.7	4.9	29	>10	enconnorm	transferrance and an	0.13	<1	0.56	516	0.03	<1	<5	<5	<20	and the second	ana ana a sana a	0.02	25 <20	
21.2	3686	20	0000-000-000	_1	<5	263 *	<5	1.4	0.5	32	>10		1.772	0.11	2	0.74	1075	0.04	<1	<5	<5	<20	1365)+00+2003+0300{++	0.000 CC (700,000	0.03	34 <20	
21.2	3687	13	on the second second	2.9	<5	273 *	<5	1.5	<0.2	19	>10	2.0.2200.0000.000	0.275	0.04	27	2.34	658	0.06	2	<5	7	<20		0.0000000000000000000000000000000000000	0.04	94 <20	
21.2	3806	10010000000000000000000000	00.00.000.000	0.8	<5	335	<5	0.4	3.6	23	>10	<2 -	1.36	0.07	2	0.62	585	0.03	<1	<5	<5	25	. 4	en regender gebre pro	0.02	28 <20	. 96893960939999999999 68695 (26.10 <u>66</u> 2) - N
21.2 21.2	3807 3808	50	32 117	3	<5 <5	986 359	<5 <5	0.3 0.5	0.7 4.8	88 18	6.26 >10	5 <2		0.22	6 3	2.46 0.6	1082 647	0.03	<1 <1	<5 <5	<5 <5	157 52	8 5	seccondrive exercis	0.06	89 <20 37 <20	
21.2	3809	32		<ul> <li>A received</li> </ul>	~5 <5	447		0.5	4.0 5.6	37	>10	<2	*********	0.12	\$950.550.000	1.26	756	0.03	<1	<5	~J <5	22	5 8		0.03	65 <20	
21.2	3810	63		1.3	<5	5084	~~ <5	1.1	2	187	2.3	<2	0.07	0.32	3	1.02	669	0.04	<1	<5	<5	<20	20		0.09	213 <20	
21.2	3811		206	en Stander son	<5	731	and the second to a	.0.7	7.3	34	>10	<2	0.5	0.27	2000-07000 2000-07000	0.98	625	0.04	<1	<5	<5	58	6	0007400400000000000	0.06	62 <20	0460 GE 1010 ET REFERENCES \$20,520 ER 102
21.2	3812	36	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	3.3	<5	1075	<5	0.5	1.9	67	6.83	- 5	2.28	0.3	6	2.63	981	0.04	<1	<5	5	180	12		0.07	104 <20	
21.2	3813	Common Common State	272		<5	319	000000000000000000000000000000000000000	0.3	6.3	90	>10	2	7.86	0.1	250.000000	1.59	677	0.05	<1		5	11			1010/2018 KUST	171 <20	- 1979
21.2	3814	29	4	1	<5	2420	<5	0.3	2.2	169	8.39	2	2.17	0.21	5	0.74	362	0.03	<1	<5	<5	133	13	en en des Marshells aus	0.09	292 <20	A Research for Recommendation for advanced
21.2	3815	15	8	1	<5	495	<5	1	<0.2	53	6.84	<2	1.03	0.08	1	0.8	693	0.08	<1	<5	<5	291	21	<10	0.19	51 <20	*
21.2	8659	11	139	0.4	<5	296 *	<5	0.4	1.8	14	>10	<2	2.387	0.05	<1	0.31	337	0.02	2	<5	<5	<20	3	<10	0.01	14 <20	
21.2	8709	24	111	0.8	<5	162	<5	0.3	2.6	25	>10	<2	0.663	0.04	1	0.6	418	0.04	<1	<5	<5	23	3	<10	0.02	24 <20	*
21.2	8710	9	54		<5	<10	<5	2.1	3.9	68	>10	<2	0.581	<0.01	<1	0.11	999	<0.01	<1	<5	<5	10	7	<10 <	0.01	7 <20	*
21.3	104	13	مصد م آماد روز ر	0.1	<5	1518 *	<5	- and the second	0.6	172			0.019		<1	0.02	consideration and	<0.01	<1	<5	<5	<20	a saada aa ahaa ahaa ahaa ahaa ahaa ahaa	<10 <		3 <20	
21.3	105	11	Alter a constanción	0.1	<5	<10 *	<5:1	100329-36020-55	2.1	avera este este este este este este este est	46.28	(acorrestori)	0.029	2000 A.M.C. 200	2	0.03	**********************	<0.01	<1	<5	<5	<20	01.01000000.1000000010	<10 <	21200/FC/20000	4 <20	
21.3	106	3		0.2	<5	58 *	<5	100000000000000000000000000000000000000	1.3	en entrano a	24.74	ha har an	<0.01			0.08	1581		<1	<5	<5	<20			0.01	8 <20	
21.3	107	<1	1950 A 2010 Str.	0.1	<5	699 *		1.1	3.7	00003330003	6.84	100535020-360000	<0.01	0.01	2	0.07	1202	0.01	<1	<5	<5	<20	4	10 980 ST 16 ST 199 (1)	N SAC 18 S A	3 <20	
21.3	108	7		0.5	<5	549 *		3.3	56.6		6.35		0.048	0.02	5	0.36	3005	0.03	<1 -1	<5 ~5	<5 ~E	<20	and the second	and a second	0.03	13 <20	
21.3 21.3	266 267	5 4		0.3 0.2	8 <5	29 * 49 *	oo, connelenue en	3.5 2.2	34.1 1.1	0.0000000000000000000000000000000000000	5.33 26.19	a. actor as a serie	0.014	001020000000000000000000000000000000000	1	0.11 0.1	3380 1966	0.03	<1 <1	<5 <5	<5 <5	<20 <20	20.00000000000000000000000000000000000		0.01 0.03	6 <20 8 <20	A 648,922,249,265
21.3	268	4		0.2	~5 <5	49 <10 *	~5 <5	0.4	0.7		28.88	001107030676165	<0.01	and some shares	<1	0.1	461	0.02	<1	າວ <5	<5	<20	0022000000000000000000000	<10 <	concerence and	<1 <20	
21.3	413	6	CONTRACTOR 000000000000000000000000000000000000	0.5	<5	36 *	<5	1.3	0.4		6.82		0.012	0.01	<1	0.19	1412	0.03	1	<5	-5 <5	<20	26	<10 <	0.01	23 <20	
21.3	414	5	age states a	0.3	6	<10 *	<5	5.9	0.4		23.95	te ne te balak re ada	<0.01		<1	0.02	consistent attraction of the state	< 0.01	.<1	<5	<5	<20	ومتلافية والأرارين	<10 <	a a tari a a da da	9 <20	
21.3	2809	45	8	1	<5	168 *		0.4	rease and suble	s an amin de hal	3.12		<0.01	0.03	3	0.73	528	0.08	3	<5	<5	<20	8	1008100-00 (CONTRAC)	us de dédec	248 <20	
21.3	2831	2	5	0.6	<5	4816 *	<5	0.4	43		29.04		0.042	0.1	<1	0.2	1597	0.03	<1	- <5	<5	<20	8	ana ana ang ang ang ang ang ang ang ang	0.05	25 <20	2000 (1900) 1900 (1900)
21.3	3665	5	Sec. 2001-2003-00	0.3	8	22 *	<5	7.7	<0.2	52	>10	<2	0.01	0.01	<1	0.04		<0.01	<1	<5	<5	<20	60.40.40000000 access	<10 <	220, 2015-00200	5 <20	
21.3	3666	7	160	0.5	17	1809 *	<5	0.3	<0.2	104	>10	<2	0.062	0.37	<1	0.29	315	0.08	2	<5	<5	<20	4	<10	0.07	50 <20	
21.3	3667		ar a zhavenu	0.4	<5	16 *		0.2	<0.2	15	>10		0.013	0.06	<1	0.3	282	0.01	<1	<5	<5	<20	3	<10 <	0.01	5 <20	
21.3	3714	12	and and dates	0.6	<5	16 *	000000000000000000000000000000000000000	0.2	8		40.81	2	2017.com.cfr:0000	<0.01	<1	0.29		<0.01	<1	<5	<5	<20	10		0.03	23 <20	
21.3	3715	7	a stations	0.2	<5	509 *	<5	2.6	107.2	168	5.19	<2		<0.01	<1	0.04	2096	0.01	<1	<5	<5	<20	11		0.03	8 22	
21.3	3716	4	te setti te sittata e	0,4	<5	887 *		0.7	50.8	89	9.57	<2		0.04	<1	0.33	1664	0.08	<1	<5	<5	<20	10		0.05	22 <20	
21.3	3717	10	42	0.3	<5	20 *	<5	1	1.3	33	38.92	<2		<0.01	<1	0.09	462	0.02	<1	<5	<5	<20	11	<10	0.03	13 <20	

Мар	Sampl	e Location	Sample	e Sample	Sample	Sample Description		* Ag	* Cu		* Zn	* Mo
No.	No.		Туре	Size (ft)	Site		Au ppb				% ppm	
21.3	3723	Northern Copper	С	5.1	UW	Sil gs w/ po & minor cp	7	Q.	and the second second second second		3 5837	<1
21.3	3724	Northern Copper	SC			Sil gs w/ po	<5				7 2028	
21.3	3725	Northern Copper	С	1.2	TP	Msv sulf lens in gs sc	165	1	2006/00100333/2006/2006/2026/2026/2026	Re (Re 11, 10, 10, 10, 10, 10, 10, 10, 10, 10,	9 209	<1
21.3	3726	Northern Copper	С	2.6	TP	Skarn mineralization in gs	7				4 7843	
21.3	3727	Northern Copper	С	3.3	TP	Gs w/ skarn mineralization & minor cp	<5		NA 60 CONTRACTOR CONTRACTOR CONTRACTOR	2000 c 2000 c 200 c 2	5 43	
21.3	8657	Northern Copper	SC	6@0.5	OC	Dark gray ar	6		one prenocolar analysis and	A CONTRACTOR OF THE CONTRACTOR OF THE PARTY	8 206	Contract of the Article Article Article
21.3	8658	Northern Copper	Rep	4	00	Alt, fest, gossany br	10	->>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		aconner concretentit de la des	6 389	and a second
21.3	8676	Northern Copper	Rep	2.5	TP	Indurated, fest gs w/ irregular seams of po, trace cp	<5				6 84	Construction and the second data and the second
21.3	8677	Northern Copper	Rep	1	TP	Green sc w/ irregular seams & pods of po & cp	<5	0 M M M M M M M M M M M M M M M M M M M		\$15010101010000000; 301000; 301000; 302;	6 224	20.00000 RU11/22 - 200 - 20000000 A
21.3	8681	Northern Copper	С	6.5	TP	Gs	<5				5 160	
21.3	8682	Northern Copper	С	5.1	TP	Gs w/ cg radiating actinolite, mag, garnet, epidote	<5	99960000000000000000000000000000000000	to other an example of the first sector of the sec	· · · · · · · · · · · · · · · · · · ·	5 4170	
21.3	8683	Northern Copper	С	na na manana arawa a <b>k</b> ata arawa	TP	Gs w/ irregular seams & knots of py, mag, lesser cp	<5		dere ernoren en en en en		6 6500	and the second se
21.3	8684	Northern Copper	C	1.5	TP	Gs w/ po, mag, cp	17			18500000 Chevrology (1968) Sectoreds	4 1043	000000000000000000000000000000000000000
21.3	8685	Northern Copper	C	2	TP	Very weathered msv sulf lens	10			And a second second second from the second	3 818	
21.3	8686	Northern Copper	c	3.4	TP	Sil gs w/ po, mag, lesser cp	6	1.	10910010000110000909090909	NANCO VICTOR CONCOLORIDO CONTR	9 121	<1
21.3	8687	Northern Copper	C		TP	Sil gs w/ po, lesser cp, locally skarnified	<5		en la seconda de la constante d		6 83	
22.1	111	Towers Creek	c	0.9	00	Fest sc w/ fg py, po, cp	16		estis per o concernance de ceder	28 TA DIN KONSI MUMAKA	6 98	
22.1	112	Towers Creek	С	4.5	00	Fest sc w/ fg py, po, cp	9			-	7 77	
22.1	113	Towers Creek	Rep	0.6	00	Sulf band of msv fg py, w/ sparse cp	8	<0.	1999 S. 1992 S. 1992 S. 1993 S. 1993 S.		6 54	61900-00190 PC PL 400 PR 400 A00
22.1	270	Towers Creek	Rep	2.1 1.7	00	Gs w/ dissem sulf	8				3 90 8 40	Carlo and C
22.1	271	Towers Creek	Rep		00	Gs sc w/ dissem sulf	11	0.	21212120212021010101010101010101000	Solder - Signey North Street and sold to be	in 14 internet and a second state for state state of the	0.0000000000000000000000000000000000000
22.1	272	Towers Creek	Rep	1.1	OC DC	Gs sc w/ dissem sulf	5				9 71	
22.2	2345	Towers Creek	C	0.5	RC	Mica sc w/ banded sulfs	69	0.		S.∰. (S) correction properties	8 27	
22.2 22.3	9558 2346	Towers Creek Towers Creek	RC SS	1.5	RC	Fest gray sc w/ banded & nodular sulf	24 12	0. 0	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR		6 32 1 171	
22.3	2340	Towers Creek	SS G	0.5	FL	Stream in gs Sil gs br w/ py	12	0. <0.			1 171 5 69	4
22.3	9559	Towers Creek	SS	0.0	ΓL	Creek flows on gs sc	<5	<0. <0.			5 09 7 76	The second se
23.1	109	Salt Chuck	s ·	0.4	oc	Sil gs w/ py, po, cp	~5 61	-0. 9.	· · · · · · · · · · · · · · · · · · ·	2012021-0000000000000000000000000000000	7 194	
23.1	110	Salt Chuck	C .	0.9	OC OC	Fest sil gs w/ py, po, cp	31	3. 3.			5 48	2
23.1	269	Salt Chuck	Rep	1	00	Sil gs w/ cp	41	3. 3.		50%2+00%0+000000000000000000000000000000	8 102	successore and the second s
23.1	279	Salt Chuck	C	2.7	0C	Fest sc, chert w/ py, cp	26	3.	an anna an saon an suara a sao	a a anno anno a conserva a conserv	1 54	12
23.1	280	Salt Chuck	C	1.1	OC OC	Sil, fest zone w/ cp	128	<b>4</b> .	8		8 73	
23.1	513	Salt Chuck	č	1.3	0C	Sil andesite w/ cp & py	26	2.	CALLS AND AND AN ANY ANY ANY ANY ANY ANY ANY ANY ANY		4 53	
23.2	114	Salt Chuck	C	1.2	OC	Sil gs sc w/ fg py	59	— 0.	2.40 - C.	22222222200000000000000000000000000000	1 78	10000000000000000000000000000000000000
23.2	115	Salt Chuck	č	0.5	OC .	Qz vn w/ po & sl in bands & blebs	8	0.		CONTRACTOR AND A CONTRACTOR OF A DATA AND A CONTRACTOR AND A DATA AND A	0 5898	<1
23.2	273	Salt Chuck	Rep	0.5	RC	Qz vn	64	2.	99999999999999999999999999999999999999	100 (100 (100 (100 (100 (100 (100 (100	5368-000 Store (Store Store	<1
23.2	9647	Salt Chuck	C	0.075	OC	Qz vn w/ py, sl in sc	<5	0.			7 2.3	
24.1	60	Portage Creek	S		RC	Hbl-rich int w/ py & cp	<5	<0.	<pre>caburacioscacios (feociace (2005) o: </pre>	NY TENNOL NY LUG ANGEN PERSONANA	0 92	200000000000000000000000000000000000000
24.1	61	Portage Creek	G		RC	Hbl-rich int w/ py & cp	<5	<0.	A REAL PROPERTY AND A REAL	THE R. LEWIS CO., LANSING MICH.	9 94	1
24.1	62	Portage Creek	G		RC	Hbl-rich int w/ py & cp	<5	<0.	1 92	25	9 101	2
24.1	138	Portage Creek	SC	15 @ 1.0	OC	Homblendite w/ cp, py	5	0.			1 143	2
24.1	139	Portage Creek	SC	15 @ 1.0		Hornblendite w/ cp, py	<5	0.			9 223	2
24.1	140	Portage Creek	SC	15 @ 1.0		Hornblendite w/ sulf	<5	0.		Anne and Anne and Anne and Anne and Anne	8 151	2
24.1	141	Portage Creek	С	2.5	OC	Hornblendite w/ py, cp	<5	0.	4 269	92	8 221	2
24.1	2367	Portage Creek	SC	40@2	00	Hornblendite w/ sulf	5	<0.	1 259	)7	6 164	2
24.1	2368	Portage Creek	SC	12 @ 1	OC	Hornblendite w/ sulf	2	0.		54	7 214	2
24.1	2369	Portage Creek	S	0.5	OC	Hornblendite w/ cp, mal & py	2	0.	3 429	94	4 194	4

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Мар	Sample		(* 1. sta)	1	As	Ba *		Са	Cd	Cr	Fe	Ga	Hg	К	La	Mg	Mn	Na	Nb	Sb	Sc		* Sr				W	Pt Pd
No.	No.				pm		ppm	%	ppm	ppm		ppm	ppm		ppm	%	ppm		ppm				xrf ppm	من منطقية المستينة	<u>n %</u> 0 <0.01	ppm 2		of ppb ppb
21.3	3723	11	2020/00/00/01/00/00/00/00/00/00/00/00/00/00	0.1	<5	100 *	<5 	2	33.3	60 48	6.2 5.03	<2		<0.01 0.01	<1 <1	0.16	2285 2423	0.01	<1 <1	<5 <5	<5 <5	<20 <20	20(00))S(2020)200000000	- 800000000000 P	0 <0.01 0 <0.01	23	and a second second second	
21.3	3724	2		0.1	<5 <5	62 * 76 *	<5 <5	2.2 1.4	9.4 0.8	ana ana ang	26.37	<2 <2		0.01	<1	0.17	970	0.02	<1	~5 <5	~5 <5	<20	an a	7 <1	Access and a second		ana a sa	
21.3 21.3	3725 3726	8 4		0.9	-5 <5	113 *	~5 <5	2.5	29.1	45	9.36	<2		0.05	<1	0.19	2500	0.05	<1	<5	<5	<20	0.0000000000000000000000000000000000000	9 <1	\$6956.0000000000000	Counderer Anderer	20080000000000000000000000000000000000	
21.3	3720	1	en en en en en	0.3	<5	36 *	<5	0.8	0.2	28	4.62	<2		<0.01	<1	0.05		<0.01	<1	<5	<5	<20		1 <1	ter en alter hert in sonderen	4	<20	
21.3	8657	19		0.4	7	293 *	<5	0.3	0.3	91	1.97	000000000	0.019	*****	2	0.32	164	0.02	1	<5	<5	<20		3 <1	0 0.03	116	<20	
21.3	8658	5	a naurinna	0.1	5	205 *	<5	0.1	<0.2	22	>10	<2	0.014	0.02	<1	0.04	235	<0.01	<1	<5	<5	<20		1 <1	0 <0.01	6	<20	
21.3	8676		115	0.1	<5	23 *	<5	0.7	0.6	25	22.31	<2	0.017	<0.01	<1	0.13	954	0.02	<1	<5	<5	<20		5 <1	0 <0.01	2		
21.3	8677	2	8	0.2	<5	79 *	<5	1.1	2.8	31	5.56	<2	0.015	0.01	<1	0.14	1031	0.03	<1	<5	<5	<20		6 <1	100.000.000.000	Received and the second s	0.0000000000000	
21.3	8681	40	26	3.1	<5	1371 *	<5	1.1	0.2	77	7.06		<0.01	0.41	<1	2.24	2324	0.13	1 <b>1</b>	<5	8	<20		5 <1	en e		<20	and the second second second second
21.3	8682	18	attan attan s	1.8	<5	371 *	<5	1.6	19.9	60	4.08	2013/05/02/02/02	0.014	10000000000000	<1	1.13	2000	0.12	7	<5	6	<20	amaaraa ba	2 <1	256.0500.0002	Subofff account	<20	
21.3	8683	2	and 11 00000	0.1	<5	37 *	<5	2.8	32.3	31	6.31	en an	0.016	contraction of the second second	<1	0.06	2538	0.01	<1	<5 ~5	<5	<20		6 <1	Second Co	4 2	<20 <20	NS 1953, S. (1940) (1953)
21.3	8684	2	2000-00000000	0.1	<5	56 *	13	1.4	7.2	27	6.9	212002/02/2002	0.022	ano ar concerc	<1 <1	0.12	1470 373	0.02	<1 <1	<5 <5	<5 <5	<20 <20	1963-181 (Destaces a su	5 <1 1 <1	0.000.000.000.000	ے 11	00000000000000000000000000000000000000	
21.3	8685	10		0.6	<5	<10 *	<5	0.1	4.7 0.8		49.22 27.03		0.019		<1	0.29	999	0.01	<1	<5	~5 <5	<20		9 <1	an an taona an a	s orang a character is	<20	
21.3 21.3	8686 8687	6 2	2.40400000.01	0.2 0.3	<5 <5	<10 * 66 *	<5 <5	0.7	0.6		19.94	222 C 22	< 0.01	cesesecco: secor p.c.e.	<1	0.09	1252	0.01	<1	-5 -5	-u <5	<20	0.2000/00/00/00/00	4 <1	200,007,00200	000000000000000000000000000000000000000	<20	
21.3	111	2 69	42	action contractor	24	177 *	<5	1.5	0.3		13.38	0 ************************************	0.471	200632000/0010000	2	2.05	575	0.03	<1	<5	14	<20		8 <1	101000000000000000000000000000000000000	o objector topocoo	<20	
22.1	112	54	46	3	18	173 *	<5	1.5	<0.2	enner anner	12.61	gge gleann ei	0.297	0.05	3	2.81	879	0.01	3	<5	20	<20	2	00000000000000	**********************	an said an	<20	
22.1	113	48		2.1	21	503 *	<5	0.7	<0.2	72	9.5	<2	0.368	0.17	2	1.79	533	0.02	1	<5	7	<20		6 <1	0 0.28	132	<20	
22.1	270	50	(3) 3000 (300 yrsts)	2.7	18	196 *	<5	2.8	0.3	98	11.19	<2	0.364	0.1	3	2.46	940	0.03	4	<5	15	<20	3	6 <1	0 0.29	226	<20	
22.1	271	84	55	1	64	579 *	<5	1	0.4	63	19.33	<2	1.396	0.2	2	0.7	257	0.02	<1	<5	5	<20	1	1 <1	0 0.24	80	<20	
22.1	272	82	27	1.9	34	97 *	<5	3.2	0.6	92	20.77	<2	0.759	0.06	2	1.66	843	0.02	<1	<5	12	<20	5				<20	
22.2	2345	136	86	0.4	22	637 *	<5	1.4	<0.2	45	29.8	200.80.235	0.512	0.09	<1	0.17	221	0.01	<1	<5	<5	<20	3	2010-1010-000623-0	0943666-57038237	2000000000000	1001319944-core c co	
22.2	9558	132	spectrons.	0.6	15	1403 *	<5	2.4	<0.2	warm the star	19.63	ne reneral constants	0.385	0.12	<1	0.36	368	0.02	3	<5	<5	<20	4:	and the second	C20150000 / 2517/00/0000	48	<20	
22.3	2346	29	1080 N 22016	1.3	40	94	<5	0.6	1	27	4.53	0.0003000000	0.262	0.07	7	0.81	942	0.02	3	<5	<5	<20	2	*********	NE CONTRA PARTICA D	67	<20 <20	
22.3	2347	45	a constantes const	0.5	10	270 *	<5	1.8	<0.2	163	9.78 2.9		0.539	0.03	2 6	0.37 0.68	236 600	0.06	7 4	<5 <5	10 <5	<20 <20	11 2	8 <1 1 <1	STREET, J. M. 1977.	error no conseño e	the property of the second	94
22.3	9559 109	22 <1	concertables of	1.4 0.7	7 <5	66 469 *	<5 <5	0.4 0.4	<0.2 0.6	24 33	16.6	002-0020-000	0.087	0.05	1000100000000000000	0.00	116	0.02		~5 <5	~5 <5	<20	6	-2005 - 2000 - 20	532888888787878			
23.1 23.1	110	<1		0.2	~5 <5	403	<5	0.4	<0.2	8	5.94	ada an tarabada	0.038	0.13		<0.01	20	0.02	3	<5	~5	<20		0 <1			<20	
23.1	269	2	0.000.000000000	0.8	<5	107 *	<5	0.1	0.3	42	6.96	000000000000000	0.037	0.04	11	0.2	139	0.07	5	- <5	- 	<20	1	eense para	ತರ್ಭವರಗಾಗ	da se	<20	
23.1	279	2		0.4	9	463 *	6	0.2	0.3	28	5.22	<2	0.16	0.18	6	0.02	50	0.07	1	<5	<5	<20	2	9 <1	0 0.04	9	<20	
23.1	280	1	4	0.4	<5	563 *	12	0.1	0.4	15	6.4	<2	0.142	0.14	3	<0.01	9	0.08	3	<5	<5	<20	2	7 <1	0 0.1	11	<20	
23.1	513	3	5	0.8	<5	42	<5	0.4	<0.2	59	5.06	<2	0.257	0.08	12	0.14	129	0.12	1	<5	<5	<20	5	9 <1	0 0.06	13	<20	
23.2	114	4	4	0.1	54	340 *	<5	0.03	0.3	37	1.77	COMPANY AND A	0.028	0.06	and the second second	<0.01	an a	<0.01	<1	<5	<5	<20	anaana ahaa ah	2 <1	and the second	1	<20	
23.2	115	20	15	ann bandar an s	11	120 *	<5	2	20	95	3.69	8990000 awa	0.335	0.04	000000000000000000000000000000000000000	<0.01	19-102-14-15200	<0.01	<1	<5	<5	<20	4	ere a caracte	0 < 0.01	<1	2022020000 00000000	
23.2	273	16	and the second	0.1	24	37 *		0.02	12	269	1.22		0.215	0.04	concerence of	< 0.01		< 0.01	<1 	<5 -F	<5	<20	an dalam na bulan shi s	1 <1	and an end to be the second	2		
23.2	9647	5	2000 (1997) (A	0.6	13	256 *	<5	2.3	86.5	91	2.56	6.00 000 0000	2.313	0.15	1	0.43	1046	0.03	<1	<5	<5	<20 <20	13	8 1 7 <1	900 SC 120 P 20	8770-0-14508-000-	25 <20	<53
24.1	60	6	an an trinte and	3.5 3.7	<5 <5	230 *	<5 <5	4 4.1	<0.2 <0.2	61 34	7.11 8.75	encon ence	<0.01 0.018	0.33	4 5	2.13 2.38	922 1116	0.42	4 4	<5 <5	10 16	<20	20 24	en e	Standario renovenanza de	2 20 V 20 2 2 V 20	<20	<5 3
24.1	61 62	2	warm and a	3.7 3.3	<5 <5	281 * 200 *	<5	4.1 3.8	<0.2	- 34 28	>10	2101010000000000	0.016	0.57		1.93	1206	0.30	4	-5 <5	12	<20 <20	27	x 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	60000000000000000000000000000000000000	\$1900.0000000000000	<20	32 38
24.1 24.1	138	2		3.3 4.1	~5 <5	790 *	<5	2.8	<0.2	a na sa na	17.65	and the second second	0.015	2.15	8	3.37	2083	0.43	20	<5	11	<20	9	a e cana an h	al contacta carl da contra e c		<20	5 24
24.1	130		8.00000000	4.1	~5 <5	1091 *	-0 <5	1.7	<0.2	center tercor	19.92		< 0.01	3.01	6	3.57	1956	0.19	20 18	-0 <5	8	<20	7	2022/06/2022		840 - ATO TA CAR	<20	6 15
24.1	140	4	30	5	<5	796 *	 <5	3.6	<0.2		16.37		0.014	2.58	10	3.69	2396	0.52	24	<5	14	<20	20				<20	<5 12
24.1	141	4	225	5	11	1067 *	<5	1.7	<0.2	Contraction (Second	23.21	ana	0.011	3.23	5	4.3	2174	0.17	22	<5	8	20	64	ales versenes	periodesection on the	Section construction	<20	10 29
24.1	2367	5.	mer sousse	3.8	<5	644 *	<5	3.1	<0.2		17.39	on a second	<0.01	1.56	9	2.82	1976	0.42	14	<5	11	<20	13	8 <1	0 0.27	354	<20	7 13
24.1	2368	8	57	4.3	<5	833 *	<5	2.3	<0.2	55	18.98	<2	0.025	2.35	6	3.65	1967	0.28	17	<5	9	<20	8	7 <1	0 0.37	369	<20	<5 25
	2000	-				000							0.010	2.00		0.00		0.49	11	<5		<20		2 <1	8 / C / C (C ) - C / C / C / C / C	291	<20	<5 8

Мар	Sample	Location	Sample	Sample	Sample	Sample Description		* Ag	* Cu	*	Pb	* Zn	* Mo
No.	No.		Туре		Site		Au ppb					% ppm	% ppm
24.1	9599	Portage Creek	SC	10 @ 0.5		Hbl diorite w/ dissem po, cp	<5				7	96	2
24.1	9600	Portage Creek	SC	18 @ 1.0	1.10000000000.020.000M0.000V0	Hbl diorite w/ dissem po	<5			2	9	64	<1
24.2	136	Portage Creek	SC	27 @ 1.0		Hbl diorite w/ po & cp	<5				50	134	2
24.2	137	Portage Creek	G	0.3	RC	Green-gray volc w/ fg dissem po, cp	6	1		9.000.000000000.00	17	139	
24.2	232	Portage Creek	S		RC	Hbl-rich int w/ py	<5			-	11	96	<1
24.2	233	Portage Creek	Rep	1,5	00	Hbl-rich int w/ py & cp	<5	2020020000 00000 Dec 000 08 00000 97 Deck 44		5	7	91	<1
24.2	9598	Portage Creek	С	6.8	OC	Hbl diorite w/ dissem po, cp	<5				11	86	2
25.1	53	Taylor Creek	Rep	0,7	00	Dol is w/ py, si & gn	45	100000000000000000000000000000000000000	942.201 V2.4002.202.40 MICLOSSE(02/02	6	7.72		
25.1	54	Taylor Creek	S		MD	Dol Is w/ sulf	99				7217	2.1	
25.1	226	Taylor Creek	G		TP	Gossan	903			X	9.69	CC 20022230 - 00000 - XQM	78999600000 CCC, 2010-8090000
25.1	227	Taylor Creek	RC		TP	Dol Is w/ sulf	32			5	2333	2.4	
25.2	51	Taylor Creek	Rep	0.8	OC	Gossan in Is	129	6.	98	1	1114	4417	3
25.2	52	Taylor Creek	G		MD	Dol Is w/ py, si & gn	183			3	0.78	5.1	
25.2	225	Taylor Creek	Rep	1.5	0C	Gray is w/ qz & py	176	10.	16	9	2431	9441	4
26	50	Indian Point	Rep	0.15	00	Sulf-bearing sil band in qz-sericite sc	187		2 4	7	115	129	7
26	224	Indian Point	Rep	0.13	00	Sulf	87	0.	4 4	4	131	110	5
27	47	West Duncan	Rep	0.5	OC	Black slate w/ py & si	24				2547	3.0	* 8
27	48	West Duncan	Rep	0.15	00	Sulf band in slate	24	25.	35	2	4651	2.8	* 10
27	222	West Duncan	Rep	0.2	OC	Sil black slate w/ sulf	6	9.	3 3	3	893	3382	12
27	223	West Duncan	Rep	1.5	OC	Sil black slate w/ sulf	8	19.	7 4	5	1633	1.2	* 9
27	2622	West Duncan	G	0.3	OC	Py band in slate	20		85	1	5400	3.0	* 5
27	9645	West Duncan	Rep	0.5	00	Sil zone w/ dissem py, sl, gn in gray sc	<5	5.	8 2	3	1849	5.4	* 4
28	278	Kupreanof Pyrite	С	6	OC	Msv py band in sil sc	22	31.	8 3	6	1304	4765	7
28	9646	Kupreanof Pyrite	C	6	OC .	Msv py in sil black phyllite	7	24.	1 3	7	1210	1.7	* 21
29.1	42	Castle Island Mine	G		MD	Barite w/ very fg sulf	59	15.	9 51	3	1584	5630	7
29:1	43	Castle Island Mine	G		MD	Barite w/ banded py	76	42.	8 24	7	5547	1.4	* 4
29.1	46	Castle Island Mine	G	0.4	MD	Banded barite w/ py	347	15	1 29	3	7783	2.3	* 3
29.1	218	Castle Island Mine	G		MD	Barite w/ sulf	58	28.	8 41	3	4971	1.7	* 3
29.2	44	Castle Island Mine	С	0.75	OC	Qz & dike	8	0.:		5	121	534	• 1
29.2	219	Castle Island Mine	C	1	OC	Qz vn	<5	<0.	1 1:	2	31	109	<1
29.3	45	Castle Island Mine	G		OC	Fest sil gs sc	9	0.:	3 18	7	11	116	1
29.3	220	Castle Island Mine	G		00	Fest sil green-gray sc w/ py	<5	<0,	1 6	5	21	89	<1
29.3	221	Castle Island Mine	G		OC	Fest sil gs	<5	<0.1		***********	6	173	<1
30	2862	East Duncan Pyrite	Rep	3.5	OC	Sil slate w/ layers, lenses, knots of py	9	;	2 81	3	7	36	36
30	3817	East Duncan Pyrite	SC	6.0@0.5	OC	Slate w/ minor py	8	0.0	6 98	3	9	244	22
30	3818	East Duncan Pyrite	С	4.5	00	Slate w/ interbedded py	<5	0.	7 8'		11	57	37
31.1	351	Spruce Creek	С	0.3	OC	Qz vn w/ py, gn,si	213	-	7 22:	3	1690	4163	6
31.1	9683	Spruce Creek	S		TP	Qz br w/ minor py hosted in sc	<5	0.;	2 43	,	17	73	3
31.2	407	Spruce Creek	С	1.4	OC	Ls w/ fg sulf	416		9 91	3	820	5221	5
31.2	408	Spruce Creek	SC	5 @ 0.5	OC	Br gs to gs sc w/ carb inclusions, sulf	<5		4 121	3	11	233	2
31.2	409	Spruce Creek	G		OC	Sheared fest gs w/ sulf	7			e construit de construit de la	13	65	3
31.2	410	Spruce Creek	G		RC	Sheared, sil gs w/ blebs of sulf	<5	<0.1			13	54	<1
31.2	411	Spruce Creek	Rep	4	OC	Sheared gs w/ sulf	98	0.0	<ul> <li>Control of the second control o</li></ul>	;**************	32	207	3
31.2	412	Spruce Creek	G		RC	Sheared, sil gs w/ sulf	7	<0.1			9	60	3
31.2	2823	Spruce Creek	SC	5@0.5	OC	Gs, Is & sc w/ py	12	n an	191912929292920000000000000000000000000	0000.000.202060	9	87	4
31.2	2824	Spruce Creek			00	Gs & Is	13	0.3	3 10;	;	6	76	2
31.2	2825	Spruce Creek	SC	5 @ 0.5	OC	Gs & ls	<5				6	53	3
				-		•					-		-

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Map Sample	Ni Co Al	As B	Ba * Bi	Ca Cd	Cr Fe	Ga	Hg	K La	Mg	Mn	Na N	lb Sb	Sc	Sn *	Sr	Te Ti	V	W	* Pt Pd
	ppm ppm %	and the second	om xrf ppm	% ppm	ppm %			% ррп		ppm		om ppm		opm xrf					rf ppb ppb
24.1 9599	2 15 3.2		226 * <5	2.7 <0.2	51 5.			- A to be a subscript of the state	4 1.89	757	0.28	9 <5	6	<20	279	<10 0.1		<20	< 5 2
24.1 9600	3 27 2.5	100-041700000-000000-00000011111	96 * <5	2.8 <0.2	25 16.	A/603930766666666	× 16.886.84.0000000000	0.3	රුනෙයා ගැනිම මැගිය	637	000000000000000000000000000000000000000	23 <5	18	<20	200000000000000000000000000000000000000	<10 0.2	or an a conservation of the	<20	39 21
24.2 136 24.2 137	2 23 3.9 7 30 3.8	Construction of the Automation and the	463 * <5 1111 * <5	3.7 <0.2 1.8 <0.2	43 4.3 7 13.	e na se se concercio		0.45 8	3 1.87 7 0.7	1284 468	0.5 0.05	13 <5 6 <5	8 31	<20 <20	583 565	<10 0.2 <10 0.1	متحاد فالمحاد فالمحاد والمتري	<20 <20	<5 59 <5 <1
24.2 232	2 9 2.3		262 * <5	2.2 <0.2	37 4.3				6 1.45	1042	0.00	3 <5	31 6	~20 <20	190	<10 0.1	arrea xere	~20 <20	<5 8
24.2 233	1 20 2.5		401 * <5	2.2 <0.2	34 3.	directory in childrense.	0.012	and the second second second second	7 1.56	1039	and the second second	3 <5	6	<20	285	<10 0.1	and a construction of the	<20	<5 7
24.2 9598	2 18 3.3	11.2010.000 - 2010.000 - 2010.000 - 2010.000	277 * <5	3.1 < 0.2	43 4.	S-2600-10-2-6650-50	<0.01		5 1.89	916	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10 <5	9	<20	319	<10 0.1	ZAMA (2015), 20	<20	<5 <1
25.1 53	13 3 0	<ul> <li>And include the complete memory of the</li> </ul>	5505 * <5	6 180.3	36 9.			respective reserve internet document	2 3.05	5572		<1 229	<5	<20	30	<10 <0.0	AND 101100	a second and the	
25.1 54	3 <1 0	94 4	4028 * <5	7.3 29.5	44 7	.7 <2	24.3	<0.01	2 3.35	7244	<0.01	<1 182	<5	<20	24	<10 <0.0	13	<20	
25.1 226	9 <1 0.1	1362	865 * <5	0.1 6.7	5 >	10 <2	>50	<0.01	3 0.01	1081	<0.01	<1 435	<5	<20	3	<10 <0.0	1 11	<20	66666
25.1 227	5 <1 0	69	670 * <5	10 13	2 2.	59 <2	10.22	<0.01	5 7.72	6700	<0.01	7 8	<5	<20	39	<10 <0.0	17	<20	
25.2 51	5 2 0.1	318	190 * <5	6.5 11.6	5 >	10 <2	2.298	<0.01	4 3.31	5571	<0.01	<1 87	<5	<20	21	<10 <0.0	16	<20	
25.2 52	49 15 0	service and a state and a state of the state	0000 * <5	3.5 121.7	48 >	- x// - x/2000000 - 1	terrene entre entre sette					<1 223	<5	<20	aanna amaan	<10 <0.0	and the second second second	ومدينية متعادية	
25.2 225	10 3 0.1	e og sjonde meret i generet og sedere de fore	894 * <5	10 38.9	8 7.	1970-1979 (1996) 1970-1979 (1996)	0.0000000000000		4 6.64	5369		5 33	<5	<20	s	<10 <0.0	59655555555555555555555555555555555555	000000000000000000000000000000000000000	
26 50	38 13 0.2	cher se	207 * <5	0.4 0.5	contraction in the electronic	erent state or accounter	coordination to be to		2 0.14	575		<1 10	<5	<20	and the second second	<10 <0.0	a and a second	ويتبع ويؤاجد المحمدون	
26 224	54 23 0.2	o o os contratos dan secondera	246 * <5	1.5 <0.2	0.000202020000000022	0.00.00.00.000000	0.167	Kobertoerrendekorrekenerer storet x	0.29	1672	000000000000000000000000000000000000000	<1 8	<5	<20	(););;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<10 <0.0	000000.00.00.000000	<20	102310220
27 47	11 <1 0.1	and the second	887 * <5	1.5 95.5	39 >			0.06 <		303	territe interriterietik	<1 42	<5	<20		<10 <0.0			
27 48	13 <1 0.1	o na una serie a reaction de la serie s	1062 * <5	2.2 124	62 >	12000-00604225	000000000000000000000000000000000000000	0.09 <	eneralisessen en ser	566		<1 49	<5	<20	2003030000000000	<10 <0.0	6, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40	<20	100000000000
27 222 27 223	20 <1 0.1		665 * <5	5.6 17.3 2.4 44.2	39 > 34 >	a concerne a		and the second	2 2.89	1268		<1 28	<5	<20		<10 <0.0			a da se casa: sa
27 2622	11 <1 0.1 8 3 0	an on farmeries to service a	265 * <5 10 <2	2.4 44.2 1.8 >100.0	34 > 19>15.0	1.611 (n. 1666) (n. 1	18.44 40.8	n shikar na sana sa	assana vez s	330	<0.01 <.01	<1 32 40	<5 1	<20	34 29	<10 <0.0	00000000000000000000000000000000000000	<20 <10	
27 9645	9 1 0.1		351 * <5	5.2 61.5	19-13.	1. S. 1. 1. 1. 1. 1. 1. 1.	>50	0.01 <10		964		1 14	<5	<20	161	22 <0.0		44	
28 278	12 2 0.2	and a state of state of	4044 * <5	0.1 13.4	68 24.0	hānn arksēt	11.27	n in the state states	area area	304	laced in the decision in the	<1 46	~5	<20	00.036264266	<10 <0.0	se per per versorenseer.	<20	ALTERN DE MARINE
28 9646	18 3 0.2		2087 * <5	0.3 97.4	81 12.		19.95		10 - 20	98		<1 39	<5	<20		11 <0.0	ana a sa ba		
29.1 42	10 <1:0.01	n na harayan dari ku dari sab	· 문화 · · · · · · · · · · · · · · · · · ·	0.01 59.9	16 7.2	1867-1965 - NR 38	3.255	<ul> <li></li></ul>	en an east a train	er sour consectorum	9.00 P.C. 000 C.C. 000	<1 54	<5	<20	surence sees.	<10 <0.0	9334944 daga gal	<20	
29.1 43	8 <1:0.01	306 >20	0000 * <5	0.2 95	9 5.3	<ul> <li>renovalskou doberoci</li> </ul>	5.096		< 0.01	Color and the second second second second		<1 113	<5	<20	1000-000000000000000000000000000000000	<10 <0.0	na presente.	aaraan faarana	
29.1 46	2 <1:0.01	64 >20	0000 * <5:	0.01 185.2	2 0.9	94 2	13.33	<0.01 <1	< 0.01	49 ·	<0.01 ·	<1 92	<5	<20	000000000000000000000000000000000000000	<10 <0.0		<20	
29.1 218	3 1 0	58 >20	0000 * <5	0.01 130.4	4 0.0	34 <2	5.408	<0.01 <1	<0.01	34	<0.01	<1 60	<5	<20	104	<10 <0.0	1 4	<20	
29.2 44	10 5 0.2	10 >20	0000 * <5	9.1 2	90 2.1	9 <2	0.355	0.1 3	3 2.6	6484	0.02	3 <5	8	<20	414	<10 <0.0	1 15	<20	
29.2 219	6 2 0.1	<5 11	1530 * <5	4.2 0.4	106 1.(	)3 <2	0.08	0.08	1.05	3118	<0.01	1 <5	<5	<20	191	<10 <0.0	1 10	<20	
29.3 45	49 29 1.2	All Marian Street Academic Academic Academics	And the second second second second	7.6 0.3	60 6.3	oorde og og steret og og	0.134	0.44 5	5 1.41	1427	0.04	2 <5	11	<20	149	<10 <0.0	1 89	<20	
29.3 220	19 13 0.4		1721 * <5	10 <0.2	24 4.(	2000-2000 0000-200	0.072	0.16 4	2.0404.0001.000.000000	3537		1 <5	8	<20	alest contractions	<10 <0.0	7046-11-61-64	<20	
29.3 221	44 26 1			5.3 0.4	62 7.9		0.175	0.26 5		1661		<1 <5	19	<20	en an an an an an	<10 <0.0		<20	
30 2862	204 48 0.4	a successive and the second		0.02 0.2	122 >	0.0000-00000000000000000000000000000000	0.149	0.22 1	encontra terrar	76	000000000000000000000000000000000000000	<1 <5	<5	<20	coserdes constructions	<10 <0.0	a manantagan	<20	
30 3817	276 88 1.1	in extrementary of the particular	The second s	and the second	122 7.1	mana as as a second	0.056	0.18 2	100 Mar. 100	413		<1 <5	<5	<20		<10 <0.0		<20	
30 3818 31.1 351	332 82 1 21 11 0.4			2.7 <0.2 8.2 19.7	113 >: 84 4.9	260339669946	0.072	0.16 2	icordana, representa especiales	449 5737	20022230270250250200000000	<1 <5 1 <5	<5	<20 <20		<10 <0.0		<20	
31.1 9683	17 12 1		en hindu and an and have	4.1 <0.2	95 2.4	and the second	0.038	0.22 3		5/3/ 419	annan barrana	1 <5 < <b>1 &lt;5</b>	<5 <5	<20 <20	278 74	<10 <0.0		<20 <20	
31.2 407	5 8 0.4	Product and the second second products	200 <0 579 * <5	23 23.4	33 2.5 12 2.7	ana dan pandibah di	7.802	0.14 <1		1497	1957 - Secola Station	<1 \5 <1 30	00050020030000	~20 <20	122715126201126204	<10 0.1	8 C-33C) - COM COM	<20	
31.2 408	5 17 2	enter la la contra contra con	889 * <5	3.1 0.4	24 4.5	dana ana ana	0.041	0.23 <1	0	1369	A MARKA A MARKA MALANA	7 <5	ana dan dar dar dar ar	<20 <20	201	<10 <0.0	an an an tra	<20	
31.2 409	4 12 1.1		1588 * <5	0.7 0.3	48 3.9		0.061	0.52 3	caestaciae increasión	378	0.04	5 <5	<5	<20		<10 0.1	0000001010-00000000	<20	
31.2 410	3 11 1.2		767 * <5	1 <0.2	27 2.6		0.016	0.29 4		643	0.06	7 <5		<20	108	<10 0.1		<20	167.300
31.2 411	5 16 1.5		1992 Televiste van de de sature	8.3 0.4	19 4.0	<ul> <li>A de la construction de construction</li> </ul>	0.062	0.15 <1	8.11.19.42.47.47.42.92.0	1680	0.02	4 <5	<5	<20	00.000000000000000000000000000000000000	<10 0.0	areas and a second	<20	
31.2 412	3 13 1.3	<5 1	022 * <5	0.5 < 0.2	37 4.7	or opported and the second	0.029	0.26 <1	official and a second s	678	0.03	6 <5		<20	888000 8. ecco	<10 0.1	n www.conie.co	<20	
31.2 2823	11 23 1.6	<5	861 * <5	2.1 0.2	25 5.0		0.015	0.25 <1		1007	0.03	6 <5	200200200000000000000000000000000000000	<20	200000000000000000000000000000000000000	<10 0.	.00000000000000000000000000000000000000	<20	
31.2 2824	4 13 1.3	<5 1	214 * <5	0.7 <0.2	18 4.7	2 <2	0.022	0.39 3	1.13	667	0.03	6 <5	<5	<20	51	<10 0.1	5 58	<20	
31.2 2825	4 15 1.7	<5 1	022 * <5	0.7 <0.2	20 4.8	4 <2	0.02	0.55 <1	1.38	586	0.03	7 <5	<5	<20	143	<10 0.2	3 73	<20	

Мар		Location	1970 St.	Sample		Sample Description		* Ag	* Cu	* РЬ		No
No.	No.		Туре	Size (ft)	Site		Au ppb		opt ppm			pm
31.2	2826	Spruce Creek	SC	5@0.5	OC .	Gs & Is	<5	<0.1	78	5	75	2
31.2	2827	Spruce Creek	SC		00	Gs & ls	<5	<0.1	122	6	56	4
31.2	2828	Spruce Creek	SC	4@0.5	00	Gs	12 30	<0.1	106	5	48 83	2
31.2	2829 2830	Spruce Creek	SC	6@0.5	OC OC	Gs Fact as	122	<0.1 0.2	151 150	/ 8	83 91	10 5
31.2 31.3	C	Spruce Creek	S G	0.8 0.4	OC OC	Fest gs Marble w/ gn & sl	779	0.Z 59.1	405	5.62 *	2.1 *	11
31.3	421 2835	Spruce Creek Spruce Creek	G	U.4	00	Volc w/ sulf	17	0.2	403	22	59	2
32	465	Nicirque	Rep	3.5	00	Slate w/ py bands	56	2.6	103	22 14	333	23
33	188	Southwest Duncan	S	20	RC	Gs w/ lenses & blebs of py	821	1.2	1189	25	93	20
33	189	Southwest Duncan	G	0.3	RC	Gs w/ blebs of py, ml stain	50	0.5	1153	20 5	35	20
33	9634	Southwest Duncan	S	0.5	RC	Sil gs w/ py	208	1.4	954	149	99	8
33	9635	Southwest Duncan	G	na ann a' Stàitea	FL	Vuggy qz-calc vn w/ py, cp, po in sil gs	15		1086	22	37	7
34	2626	TB	Ğ	0.3	RC	Sil, br rhyolite w/ py in br	<5	0.5	3	115	425	6
35	181	Monongehela	C	3	OC	Fest volc	<5	0.4	7	37	203	3
35	185	Monongehela	G	2	OC .	Rhyolite	<5	<0.1	6	24	192	3
36.1	9682	Scott	Rep		RC	Pale gray alt voic w/ qz & si	1449	12.6	150	2559	1.3 *	3
36.2	325	Scott	G	0.4	FL	Qz & gs w/ fg, msv py	8157	3.1	196	289	4547	5
36.2	326	Scott	Rep	0.7	OC	Msv py w/ si & gn	276	38	218	9706	14.2 *	<1
36.2	327	Scott	c	0.6	OC	Gs & gs sc	12	2.4	199	78	520	2
36.2	328	Scott	CC	0.7	OC	Msv py w/ si & gn	213	10.8	156	761	1.7 *	2
36.2	329	Scott	CC	0.3	00	Msy sl w/ gn	266	94	59	2.63 *	40.9 *	<1
36.2	330	Scott	С	0.45	OC Í	Msv py	112	7.4	174	1064	6510	3
36.2	331	Scott	C	0.4	00	Barite	<5	0.3	<1	28	354	<1
36.2	332	Scott	CC	0.9	OC	Msv py	158	12.8	104	362	5651	<1
36.2	333	Scott	CC	1	00	Gs & gs sc	6	1	138	22	228	<1
36.2	334	Scott	CC	0.3	OC	Gs sc w/ barite, py, sl	383	5.4	425	1942	3.9 *	2
36.2	335	Scott	С	1	00	Gray to green gs sc w/ py, sl, barite	33	17	277	5853	9794	6
36.2	336	Scott	CC	0.1	OC	Msv sulf band w/ sl	1122	15.3	1599	715	5.4 *	1
36.2	337	Scott	CC	0.3	00	Msv py w/ sl	265	15.1	400	2657	9 *	2
36.2	338	Scott	С	0.7	00	Green sc	<5	0.2	121	33	303	<1
36.2	339	Scott	Rep	1	00	Blocky gs w/ py	<5	0.5	92	11	214	<1
36.2	340	Scott	С	2	OC	Msv py w/ bands of gs & si	175	11.8	202	2275	6.7 *	2
36.2	341	Scott	С	1	oc	Gs sc w/ dissem py, sl	39	9.6	289	1872	1.5 *	2
36.2	342	Scott	СН	0.2	00	Msv py w/ bands of sl	139	6.5	641	356	1.0 *	2
36.2	343	Scott	C	0.5	00	Fault gouge w/ sc fragments	<5	0.6	206	18	292	<1
36.2	9671	Scott	C	0.5	OC	Sil zone w/ calc, cubic py, trace gn & sl in gray sc	376	3.1	161	380	1245	4
36.2	9672	Scott	C	0.4	00	Gray to green gs sc w/ minor py	19	0.5	205	13	231	3
36.2	9673	Scott	c	5	00	Gray sc to phyllite w/ to 0.4 ft bands of msv py	125	4.1	294	106	1.5 *	3
36.2	9674	Scott	C	1.4	00	Band of msv py	319	9.7	151	280	1.3 *	2
36.2	9675	Scott	С	0.8	00	Msv banded sl, py	575	31.3	286	4630	14.2 *	4
36.2	9676	Scott	C	0.4	OC .	Msv py lens	927	7,4	41	320	1527	3
36.2	9677	Scott	C	1.4	00	Band of msv py & sl	166	24.2	137	1007	6.3 *	3
36.2	9678	Scott	C	1.2	00	Band of msv py w/ thin fingers of sc	177	22.6	231	641	1.1 *	3
36.2	9679	Scott	C	2.1	00	Msv py & si	1011	47.3	269	2157	10.3 *	3
36.2	9680	Scott	Rep	0.3	00	Gray sc w/ minor dissem py	40	2.4	203	99	2260	2
36.2 37	9681 196	Scott	SS C	À	TP	Gray sc & bands of msv sulf outcrop in stream	24 15	0.4	109	45 69	265 589	1 <1
31	190	Lost Show	U I	4	117	Fest sc w/ py	10	7.7	215	69	209	~1

 $i_{i_1} < \cdots < i_n$ 

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Map Samp		Co Al	As	Ba *	Bi Ca	Cd Ci		Ga	Hg	K	La	Mg	Mn	Na	Nb	Sb	Sc	Sn	* Sr	A 1997 O 999 C 1 1 1 1	o ingen ingen i	W	* Pt Pd
No. No. 31.2 2826	ppm 5	ppm % 20 2.1	 		ppm % <5 1.4	ppm ppr <0.2 1		 	ppm 0.015		ppm <1	<u>%</u> 1.63	<u>ppm</u> 1031	<u>%</u> 0.03	ppm 8	ppm <5	<u>ppm</u> <5	<u>ppm</u> <20	xrf ppm	ppm % <10 0.			(rf ppb ppb
31.2 2827	5	20 2.1			<5 0.9	infolde apprenden in porter in recei	C / C C C C C C C C C C C C C C C C C C	2000000000000	0.013	0.00	2	1.05	922	0.03	5	~5	~J <5	<20	88	76.0 C	\$595555566554555555	05985524402286	
31.2 2828	12	20 1.9	000000000000000000000000000000000000000	unicana ani na mani na marina	<5 1.0			accesses and anony	0.023		<1	1.67	709	0.02	9	<5	<5	<20	ana ana ang ang ang ang ang ang ang ang	<10 0.		ana ana ang ang ang ang ang ang ang ang	10.000
31.2 2829	7	18 2.6	Control Control III A	000000000000000000000000000000000000000	<5 0.9		na ann an Anna	6400 (C. 2005)	0.019	0.11	<1	2.35	743	0.04	9	<5	<5	<20	53	101012120022120023861351305861	.1 99	- 1 - 1 (X - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
31.2 2830	18	24 2.7		A STATE AND A STATE OF A STATE OF	<5 0.3	THE REPORT OF THE REPORT OF	na al no serve an an		0.015	nann an Christian	<1	2.95	754	0.04	9	<5	5	<20	17	concerno ancienciano	Sauce and a second		
31.3 421	12	7 0.2	. 127	7496 *	<5 14	158.6 2	4 2.72	<2	1.233	0.13	<1	0.34	7771	<0.01	<1	30	<5	<20	493	11 <0.	01 6	<20	
31.3 2835	4	8 1.4	<5	909 *	<5 0.7	0.2 1	7 4.39	<2	0.011	0.32	2	0.91	307	0.04	6	<5	<5	<20	158	<10 0.	19 59	<20	
32 465	93	14 0.7	93	1902	<5 0.4	2.4 17	8 >10	<2	1.34	0.22	5	0.47	429	<0.01	<1	9	<5	8	6	<10 <0.	01 149	<20	
33 188	71	53 0.9		1336 *	<5 16	ana sangin ting an tak	200000000000	130 0 00 0 00 0 0	0.123	0.18	<1	0.66	1197	0.02	2	56	<5	<20	309	10 0.	1950 (C. 1957), (C. 1977), (C. 197	3999992392377777777	
33 189	39	<b>50</b> 1.1		2081 *	<5 2.6				0.036	0.07	<1	0.4	329	0.04	<1	<5	7	<20	247	<10 0.		denie a tana a sa	
33 9634	57	57 0.9	of a foreign and some of	759 *	<5 8.2	aana weedka Baaaskarii	4 18.79	aztue destatiante	0.111	ennes regener henerer -	8	0.45	1367	0.02	<1	6	<5	<20	164	11 0.	90099223000990020	<20	
33 9635	7	10 0.4	and the second second second		56 14		vez vez vezo u ecerca	en marca da se	0.015	0.01	16	0.19	790	0.01	1	<5	<5	<20	190	35 0.		and the second second second	in a shekalarin sana
34 2626 35 181	1	2 0.3		30 317 *	<2 0.01 <5 0.04		20-2369 Anna ann an	<10 <2	1.1	0.16	30 30	<.01 0.02	30	0.03	A	<2 11	<1 <5	<20	2	<10 (	000000000000000000000000000000000000000	<10 <20	
35 181 35 185	2	2 0.3		a series and the series of the	<5 0.04	0.6 6	Same Present	<2	0.016	0.15	same same	<0.02	102 180	0.10	4	<5	<5	<20	4	<10 0.	a han a sa s		anet di sebelaria
36.1 9682	10	14 0.2		and the second second second second	< 5 0.7	76 9	verse automotiones	1000 L 100 2000.	2.82	0.11	∪ <1	0.01	94	0.01		<5	<5	<20	-2-1556-representations	ماكرة فالمؤادية وبالإستهاد ويكام إستهاد	.2 32	and the second as	
36.2 325	37	27 0.3	Na na nanatra na na	contraction of a contract to the	<5 0.4	**************************************	-3021203-000703-00130-001	120100210000100	1.36	0.16	<1	0.09	161	0.05	1	<5	<5	<20		<10 0.	ona anna ann	and a second	0.000
36.2 326	57	55 0.2			<5 1.5			<ul> <li>Contraction</li> </ul>	23.5	0.08	<1	0.07	areach chronic refrederau	< 0.01	<1	19	<5	<20		<10 0.	e terre e construction de la construction de la construcción de la construcción de la construcción de la constru	C276220	
36.2 327	50	38 4	7	951 *	<5 2.8	2 11	3 9.39	<2	0.112	1.46	<1	3.01	1249	0.06	2	<5	9	<20	26	<10 0.	57 270	<20	200 - C. 1990 - C. 19
36.2 328	62	50 0.1	25	3931 *	<5 1.7	100.8 5	6 >10	<2	3.024	0.04	<1	0.05	212	<0.01	<1	6	<5	<20	15	<10 0.	)1 2	<20	
36.2 329	10	66 0.3	35	957 *	<5 0.1	>2000 3	8 >10	26	>50	0.22	<1	0.09	301	<0.01	<1	54	<5	<20	3	<10 0.	)5 20	255	
36.2 330	56	52 0.1	16	10.81% *	<5 2.7	22.7 3	9 >10	<2	1.021	0.07	<1	0.03	803	<0.01	<1	24	<5	<20	16	<10 0.	03 10	<20	
36.2 331	<1	<1:0.01	<5	and the second second second second	<5 0.1		2 0.22	8.22024.2026000-0	0.069	12.2022/06/07.20022/22.0022	000000000000000	<0.01	<00102010210200000000000000000000000000	<0.01	<1	<5	<5	<20	2020-2020-004 X60-004-0	<10 <0.	226.00000.0	85.2.30.676757 S.2	
36.2 332	63	47 0.1	and device includes	CENTRAL PROPERTY AND	<5 1.8	C. A. 69/00/00010010010010000000000		<2	1.207	0.03	<1	0.05	00110010000100000000	<0.01	<1	<5	<5	<20	10	<10 0.	0.0000000000000000000000000000000000000	and an and a second	
36.2 333	34	34 3	0.000 Contraction (2077)	2546 *	<5 4.1	0.5 14	Sect. 78: 3076 307 308		0.052	0.84	1	2.47	1010	0.06	2	<5	9	<20	52		ofolofol or highere.	<20	
36.2 334	35	46 0.9		3189 *	<5 2.7	81 March 197 March 197 Annual Statement	renore comor proprintario		5.393	0.5	<1	0.23	509	0.03	<1	<5	<5	<20	15	<10 0.		<20	
36.2 335 36.2 336	48 27	48 0.6 67 0.4	200-000-000-000-00	3522 * 490 *	<5 3.5 <5 0.3		82.000 C 2000 C 2000 C	00000000000000000	1.944 11.72	0.39	<1	0.06	789	0.03	<1	7	<5	<20 <20	000000000000000000000000000000000000000	<10 0. <10 0.	00700000000000000000000000000000000000	<20 <20	
36.2 337	39	49 0.2		1753 *	<5 0.9				17.72	0.22	<1	0.13	157 118	<0.01	1 <1	9	<5 <5	<20	4 19	<10 0. <10 0.	and the second second	a da a da a como a a	2010/02/02/02/02/02
36.2 338	32	31 2.7	skielen naar trakke	1552 *	<5 3	ere en el	5-8-950664566		0.057	0.11	2	2.24	958	0.06	2	<5	-3 7	<20	63	<10 0.3	199 (Constanting a series of the series of t	<20	
36.2 339	19	26 2.3	an ann an an an an an an	1865 *	<5 2	1.1 12			0.035	0.24	2	1.85	637	0.1	ī	<5	, 5	<20	187	dente la la contra de la contra d	en an inida	Jan 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	
36.2 340	50	53 0.7	32	1715 *	<5 1.1	484.2 6	~~~~~~~~~~~~~~~~	ernen er i	14.94	0.23	<1	0.29		< 0.01	<1	<5	<5	<20	21		.1 31	<20	
36.2 341	40	40 2.8	19	7547 *	<5 1.7	78.1 7	1 7.82	<2	3.78	1.49	<1	1.02	899	0.01	1	<5	10	<20	14	<10 0.	9 139	<20	410.30.080
36.2 342	35	53 0.1	23	7031 *	<5 2.7	62 5	1 >10	<2	2.172	0.04	<1	0.02	563	<0.01	<1	16	<5	<20	26	<10 0.0	35	<20	000 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1
36.2 343	33	34 2.7	<5	2343 *	<5 2.8	1 13	2 5.49	<2	0.06	0.63	2	2.24	957	0.07	2	<5	8	<20	94	<10 0.4	9 158	<20	
36.2 9671	42	26 0.4		11.17% *	<5 4.3	3.6 5	5 9.1		1.486	0.26	<1	0.08	565	<0.01	<1	7	<5	<20	25	<10 0.2	2 33	<20	
36.2 9672	21	17 1.4	5	4142 *	<5 3.6	0.4 3			0.027	0.47	<1	0.75	concentration contention of the concentration of th	<0.01	<1	<5	<5	<20	24	<10 0	1999 - Carlos Angeles (* 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 1997 - Carlos Angeles (* 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19 1997 - Carlos Angeles (* 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	<20	
36.2 9673	43	42 1.6	: attraction and some	18640 *	<5 3.9	91.8 6	10110-00000000000000000000000000000000	se contenes occurs	3.639	0.75	<1	0.48	1113	0.01	<1	<5	<5	<20	25	<10 0.:		an a	
36.2 9674	24	24 0.2	en an tean saint e su	7.01% *	<5 1.1	36.4 1	000000000000000000000000000000000000000	-Xeroectio: 2000/2001	2.047	0.08	<1	0.06		<0.01	<1	<5	<5	<20	000130300000000000000000000000000000000	<10 0.1		0.0000000000.0007	
36.2 9675	28	42 0.7	19	1865 *	<5 2.6	an management to the second second	a and a second second	7	26.32	0.23	<1	0.21		<0.01	<1	41	<5 -5	<20	22	36 0.1		143	
36.2 9676 36.2 9677	21 34	17 0.1	8	26.34% *	<5 4.5	5.7 2	~~~~~~~~~~~~	000000000000000000000000000000000000000	0.349	0.03	3 <1	0.04	90000000000000000000000000000000000000	< 0.01	1	<5	<5	<20	0202259/2422003403608	<10 0.1	800000000000000000000000000000000000000	900000 <u>0000000000000000000000000000000</u>	
36.2 9677 36.2 9678	34 42	40 0.02 57 0.8	a contrata contrata da serie de la contrata de la c	9.45% * 5765 *	<5 2 <5 2.2	330.3 3 63.7 5		<2 <2	13.56 3.23	0.02 0.41	<1	0.01 0.31	433	<0.01 0.01	<1 <1	21 7	<5 <5	<20 <20	10 25	<10 <0.0	Kana na maka na	a sata la come	and State Street States
36.2 9679	42 42	56 0.3		2934 *	<5 2.2	683.3 6	vertuestagen strae	~2 <2	20.36	0.41	<1	0.31		<0.01	∼ı <1	، 6	_∽ວ <5	~20 <20	35 4	<10 0.		~20 <20	
36.2 9680	45	36 3	27	4234 *	<5 3	11.8 7		ana ang ana ang ang ang ang ang ang ang	0.411	0.55	<1	1.44	1276	0.01	1	<5	-5	<20		<10 0.4	อัลงงารีต่ำ	<20	
36.2 9681	37	32 2.9		1113 *	< 5 0.7	1 9	201222-01221-0200-0200	********	0.145	0.35	3	2.04	1659	0.01	13	<5	<5	<20	20	<10 0.4		<20	
37 196	40	17 0.8	75	984 *	<5 0.2	2.5 8	energia estador da	ay galanta ay	ine e su oussausion	0.39	1	0.13	4062		<1	19		<20	a array and and and the set	<10 <0.0	enorme anore	<20	a anti ante e
	900 Marine 1997 (1997)	sassan manadi dha	co		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	a una 1995 y COMBESSION	a mislandary nga							an 1740 1760 1760 1760 1760 1760 1760 1760 176		nan 90.000 ( <b>5</b> 80)						1999 (1997) (1997) 1997 (1997) (1997) 1997 (1997) (1997)	NA 61 100 010 010 000 0100

Мар	Sample	Location	Sample	Sample	Sample	Sample Description		' Ag *	Cu *	Pb *	Zn * M	No
	No.		Туре	Size (ft)	Site		Au ppb o		ppm %	ppm %	ppm % pp	pm
	197	Lost Show	CC	0.6	TP	Msv py, sl	21	105.6	321	2067	10.9 *	<1
	198	Lost Show	С	4.4	TP	Bands of py & sl in fest sc	84	153.8	259	5519	11.5 *	<1
	199	Lost Show	С	2.4	TP	Fest sc w/ fg py	10	7.4	105	1510	1179	<1
(************************************	2627	Lost Show	C	1.2	00	Sericite sc w/ lenses & bands of sl & py	210	5.4 *	235	2.08 *	12.7 *	2
	2628	Lost Show	C	1.9	00	Msv sulf w/ sl & py in fel sc	450	7.1 *	370	4.20 *	15.3 *	1
sa process preserves or osea	2629 9639	Lost Show	C SC	1 7.5 @ 0.2	00	Sil msv sulf w/ py & si	90	76	230	2150	12.1	<1
wind to window windowski	9639 9640	Lost Show	SC	7.5 @ 0.2 5.5 @ 0.2		Thinnly bedded sil sc w/ thin banded py, gn, sl Thinnly bedded sil sc w/ thin banded py, gn, sl	66	83.9 84	252	5180	4.5 *	1
2010/00/00/00 00 pros/200/200/200/200/200/200/200/200/200/20	9641	Lost Show	G	0.0 (U) 0.2		Sil metavolc w/ fg dissem py	133 9	04	179 115	3217 14	<b>5.0 *</b> 148	2 2
		Lost Show	c	1.1	TP	Sil metavolc w/ ig dissem by Sil metavolc w/ py, gn, si	392	282	258	2.79 *	24.2 *	2
and the second	30	Helen S Mine	Rep	1.5	öc	Qz vn w/ inclusions of gs w/ py	0.328 *	202	209	<b>2.19</b> 795	1042	2 2
	31	Helen S Mine	Rep	0.4	oc	Gs	41	1.7	191	47	314	2
	32	Helen S Mine	S	0.4	MD	Sil volc w/ sulf	82	38.9	54	7539	5.4 *	3
	33	Helen S Mine	č	2.3	TP	Qz vn	14	1.1	12	506	2870	2
	34	Helen S Mine	C	1.2	OC	Qz vn	15	2.9		442	337	3
	35	Helen S Mine	Ċ		TP	Fest sil gs	30	2.4	116	585	995	2
	36	Helen S Mine	G		MD	Slightly sil gs w/ py	4248	1.6	570	86	258	2
38.1 3	37	Helen S Mine	SS			Stream in gs to gs sc		3	90	457	948	<1
	38	Helen S Mine	G		MD	Fest qz w/ sulf bands	120	53	60	1.0 *	8.5 *	<1
38.1 3	39	Helen S Mine	G		MD	Fest qz w/ sulf bands	150	48.6	52	6811	6.3 *	1
	40	Helen S Mine	SS		MT	Sample of mine tailings		16.5	135	1888	1.4 *	3
	41	Helen S Mine	SS	영화 관계를	MT	Sample of mine tailings		12.3	111	927	9950	3
An and the second se	200	Helen S Mine	C	1.8	TP	Msv py, po, gn	64	69.7	42	7564	3055	3
59509 CC191 E13C E13C E 17 C	213	Helen S Mine	G	112 COM	MD	Qz	4536	2.6	50	283	491	2
	214	Helen S Mine	G		MD	Gs	41	1.9	254	341	2471	1
11-11-11-11-11-11-00-00-0-1-1-1-1-1-	215 216	Helen S Mine Helen S Mine	S	8	MD	Sulf Qz vn	76	77	99	8858	4.0 *	3
	210 217	Helen S Mine	Rep RC	8	TP TP	Slate & sc	<5 58	1.4	239	295	513	1 
	217 381	Helen S Mine	C	2.5	TP	Fest sc		3.3 2	573 936	629 896	945 600 -	2 2
	382	Helen S Mine	č		TP	Msv py w/ si, gn	48	65	930 56	9560	2540	2
	383	Helen S Mine	2000.2000.0000.0000.000.000.000	0.7	TP	Sil sc w/ sulf	45	29	92	3078	3.0 *	3
		Helen S Mine		0.5	RC	Qz vn w/ sulf	35	15.5	36	3175	1.9 *	2
		Helen S Mine	<ul> <li>30100000000000000000000000000000000000</li></ul>	0.8	OC	Qz vn	10	1.8	10	500	330	ಾರ್ 1
		Helen S Mine	RC		MD	Msv sulf, py, sl	80	67	86	7200	3.4 *	2
38.1 9	9565	Helen S Mine	С	0.9	OC	Qz vn & sil br zone in fest slate	132	1.78 *	64	1.09 *	12.8 *	2
38.1 9	9566	Helen S Mine	С	2.6	OC	Qz vn & sil br zone in fest slate	48	15.8	53	1429	4942	<1
		Helen S Mine	Rep		RC	Sil, fest metavolc w/ dissem py, gn, sl	152	113.5	81	2.50 *	5.3 *	<1
	50000 000000000000000000	Helen S Mine	G		FL	Greenish-gray alt volc w/ dissem & msv py	<5	0.4	437	43	495	2
second and second second second		Helen S Mine	G		MD	Qz vn w/ sulf	75	2.13 *	39	1.74 *	7758	2
000000000000000000000000000000000000000	200000000000000000000000000000	Helen S Mine	2000-00 Verb 70 Verb	0.1	00	Fest qz vn w/ py	3878	0.3	88	9	55	3
		Harvey Creek	SS		19 <u>142 - 191</u> 49 - 1914 - 1914	Soil sample taken @ surface	1208	0.8	106	69	133	2
	000000000000000000000000000000000000000	Harvey Creek		0.6	RC	Qz block w/ inclusions of phyllite, trace py	<5	0.8	43	61	54	3
	Charles Construction Construction	Harvey Creek	, in a second construction of the second	0.9	RC	Fest qz vn w/ inclusions of phyllite, trace py	7	0.4	38	18	70	2
000002250005148858686666		Harvey Creek	2003000200000000020	0.05	OC ·	Py band in fest, sil phyllite	36	0.3	337	13	99	2
		Harvey Creek		0.5	RC	Qz vn w/ py in sil, fest phyllite	<5	0.2	143	13	61	6
0.0000000000000000000000000000000000000	1963 - 1963 - 1963 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 - 1965 -	Harvey Creek	200-630-0 U.C.C.Q.Q.C.C.	1.2		Qz w/ calc & py	6	0.4	184	12	126	5
39.2 9	9568	Harvey Creek	Rep	1.4	oc	Gs w/ dissem py	25	0.4	196	37	306	2

	imple		Co A	6	Ba		Ca Cd	Cr	Fe	Ga	Hg		La	Mg	Mn	Na %	Nb	Sb	Sc	Sn	* Sr xrf ppm	Te Ti ppm %	V	W	* Pt Pd xrf ppb ppb
No. No 37 19	1	<u>ppm</u> 38	<u>ppm %</u> 25 0		ppm xi 9 105 *	f ppm <5	% ppm 0 658.	ppm 7 73	<u>%</u> 13.58	<u>ppm</u> 13	ppm >50	<u>%</u> 0.06	<u>pm</u> 2	<u>%</u> 0.02	ppm 528	<0.01	<u>ppm</u> <1	<u>ppm</u> 119	<u>ppm</u> <5	<u></u> <20	<u>xii ppin</u> 2	<u>38 &lt;0.01</u>	and a second		VI PPP PPP
37 19	· · · · · · · · · · · · · · · · · · ·	33	23 0				0.1 725.		10.37	10	>50	0.00	2	0.1		<0.01	<1	120	6	<20	3	an manage of the state of the state of the		123	
37 19	22.42.42.44.4	48	26 1	0013/00/012/2023/2023	10. 200 April 10. 200 April 10. 200		0.1 5.	444000000000000000000000000000000000000	4.41	***********	15.72	0.2	1	0.06	000000000000000000000000000000000000000	<0.01	<1	·27	23	<20	4		111	<20	
37 26		21	17 0		concernantes and concerned	<2	0.1 >100.	0 123	6.85	10	>100	0.03	<10	0.08	680	<.01		144	4		<1	<.01	19	<10	
37 26	baagaa ahmad saaray sija	33	14 0	1 8	4 10	<2	0 >100.	087	>10.9	10	>100	<.01	<10	<.01	175	<.01		138	<1		<1	<.01	1	<10	
37 26	29	28	25 0	23	2 10	<2	0 >100.	0 132	>10.1	<10	>100	0.01	<10	0.02	545	<.01		44	1		<1	<.0	2222-225-505-52-5	<10	
37 96	<b>3</b> 9	44	20 0	83	5 834 *	<5	0.2 356.	7 123	7.91	7	>50	0.12	3	0.12	and a second	<0.01	<1	56	14	<20	5	25 <0.01		54	de stratecturet and assessments give
2720.20030.00000.00000000000000000000000	640	20	13 0	.01703125-82206.000.		<5	0 289.	kanateraturateraterate	13.09	9	>50	0.14	1	0.02	2120	contraction (Contraction)	<1	80	9	<20	3	5.363033333333333333353635333333333		54	
No	641	46	39 2	in and conserve	Manager and a standard and	<5		en exercise danse	6.05	e estere en estere e	0.353	0.13		1.95	940	0.06	<1	<5	5	<20		<10 0.58		<20 <20	
37 96	- Trade Caracter	24	18 0	an na antar an	프 나타이 옷을 즐겨 주는 것이 많이 많이 했다.	<5	0 129	1999 - C.	9.53	-8	>50	0.04	800 Store	<0.01	er for daar van weer weer	<0.01	<1	142	<5	<20	18.98500000000000000000000000000000000000	<10 <0.0 <sup>-</sup> <10 <0.0 <sup>-</sup>	Control Country on	<20	
38.1 30	e de la companya de l	13	30	nan anta ata ata ata 20	a construction of the second	<5 <5	0.8 14.	002000000000000000000000000000000000000	2.64 >10	~2 4	0.796	0.06 0.13	<1 4	0.3 3.6	162 1170	0.01	<1 3	<5 <5	<5 26	<20 <20	and a second second second second	<10 <0.0	www.comerce.com	<20	
38.1 31 38.1 32	genere encome e s	54 19	24 4 7 0.0	annan an Sta	-1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	 <5	1.5 152.	5.8038 (netrone)	>10	000000000000000000	22.06	*******************	<1	0.02	uter a construction de la construcción de la construcción de la construcción de la construcción de la construcc	<0.01	ں 1>	107	دم 5>	<20		<10 <0.0		2012/02/2012/201	
38.1 32 38.1 33	-	19	4 0.0	an and a marked by	6 13*	<5	0.3 13.	o certo chitettorea	1.16		5.669		<1	0.02		<0.01	<1	<5	<5	<20	and the second	<10 <0.0		and the second	a an
38.1 33		15	1 0.0	2.00000000083	a	<5	0 0.		1.31		2.454	e de la competition d	C 222 X08 X8	< 0.01	252222000000000000000000000000000000000	< 0.01	<1	<5	<5	<20		<10 < 0.0			
38.1 35	et et de la de la de la de la de	19	18 1	an ta mata atta atta atta a	rise chapters been was the reproduced as	<5	0.6 3.	000000000000000000000000000000000000000	6.77		4.008	0.7		0.54	733	and the second	<1	<5	17	<20	an a	<10 0.13	or a support	<20	
38.1 36	sauto recordore	17	31 3	C. Standersbeiten 31	1997 - Construction Construction (Construction Construction Construction Construction Construction Construction	<5	5.8 4.	7 47	>10	5	0.216	0.12	6	2.08	1844	0.02	<1	<5	30	<20	115	<10 0.04	409	<20	
38.1 37	•	22	47 2	52	8 782 *	<5	0.6 3.	2 19	8.38	<2	0.382	0.05	6	1.02	6093	0.08	6	<5	10	<20	1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	<10 0.09	19636619610000000000000	Concernation	
38.1 38	1	6	2 0	1 7	2 957 *	<5	0.3 350.	6 162	3.93	<2	20.42	<0.01	<1	0.02	and the second second parts	<0.01	<1	35	<5	<20	a ann an tha chuir a ch	<10 <0.0		and the second	
38.1 39	1	10	1 0.0	Conclude and the conclusion	er de dépendence : de épérdent seg	<5	0.1 273.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5.97	<2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<0.01	2002/02/20	<0.01	8036936 - Store Revo	<0.01	<1	45	<5	<20	2008-2009 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200	<10 <0.0	ALCONTRACTOR &	occess concer-	
38.1 40	v an er morene er	20	18 0		encounter a substant a	<5	8 56.		7.26		5.256	0.11		1.03	3560	0.17	1	24	7	<20		<10 0.03	ero vecto atomo	a ana ana ara-tana	
38.1 41		29	20 0	599 98 48 CAN STAT		0.0000000000000000000000000000000000000	4.1 4	99942945977777778	7.8	0000000000	2.215	2012/06/06 2020 2020 2020 2020	7	1.52	en daaraan	0.26	1	14	9 ~F	<20		<10 0.04	0.00 2000-0000 v	<20 <20	
38.1 20	والمراجع المراجعي	28	11 0. <1 0				0.02 7. 0.1 9.	a construction and a construction	30.86 0.92	an a cara	8.488 0.323	and the second second	<1 <1	<0.01 0.08	and the second states of the second	<0.01 <0.01	<1 <1	147 <5	<5 <5	<20 <20	4	and a star of the second s		<20	
38.1 21 38.1 21	See	13 52	<1 0 28 3	souse as references started	이 여름이 없이 않았다. 이 이 아파 가지 않는		1.5 11.	ander andere en servere	8.57		1.081	0.01	5	2.39	1044	0.02	4	<5 <5	24	<20	1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	<10 <0.01	ezen ken dere	ed al Rebena de	
38.1 21	Construction of the	39	17 0		V1281100000010001	<5 <5	2.9 105.	secondo e promoto que	>10		17.06	0.05	2	0.08	enderer ander egenerer	<0.01	<1	159	<5	<20		<10 < 0.0	on on warrant	under the control of the	
38.1 21	Sector sector of	5	2 0	1990 (1992) 1990 (1990 - 1990) - 1990 (1990 - 1990) - 1990 (1990 - 1990) - 1990 (1990 - 1990) - 1990 (1990 - 1	ware and the state of the state	a an tha	<ul> <li>Construction de la construction de la construction</li> </ul>	9 170	1.31	<2	0.7	0.03	Contectore letters	0.12	316	0.01	<1	<5	<5	<20	6	<10 0.01	an can be	<20	10- 800.000 000 0000000000000000000000000
38.1 21	which the second second	9	34 3		9 3339 *	<5	er en	4 19	>10	<2	0.461	0.93	6	1.72	1684	0.01	1	<5	33	<20	29	<10 0.24	201	<20	
38.1 38	1	15	42 3	71	6 508 *	<5	1.9 3.	6 15	>10	8	0.064	0.05	6	2.29	1309	0.02	3	<5	36	<20	45	<10 0.04	527	<20	
38.1 38	2	33	10	0 31	5 193 *	<5	0.01 4.	1 75	>10	<2	5.902	0.02	<1	<0.01	63	<0.01	<1	96	<5	<20	122112021200100100101120000	<10 <0.01	000000000000000000000000000000000000000	<20	
38.1 38	orana a sere c	33	14 0	tale following constraints and			2.4 82.		>10	<2	10	0.07	<1	0.07	LINE AND A REPORT OF A	<0.01	<1	86	<5	<20		<10 <0.01	ann mannsins	<20	
38.1 23	5,000,000,000,000	6	8798 NA288 NASA NASA NA	0 5	1.00.0000000000000000000000000000000000	2010-000-000-00	2010/00/2010/00/2010/2010/2010/2010/201	2 142	2.61	<2	4.789	0.01	1	0.02	0.339/19/100.9004603	<0.01	<1	21	<5	<20	43	13 <0.0	000000000000000000000000000000000000000	8888 <b>8</b> 76 (* 1	
38.1 26	101 C & 101 YO	4			8 890		0.1 0.		2.27		and a state of the second s		<10	<.01	415	<.01		<2	1	1049004090	10	<.0′ <.0′	an an second	<10 <10	
38.1 26	0.0000000000000000000000000000000000000	21 6	13 5 0.	0 54 1 8		<2	1.1 >100. 3.7 534.		15.00 5.45	~~~~~~	30.52		<10 <1	0.02	955	<.01 <0.01	<1	112 46	<1 <5	<20	11 22	35 < 0.0			
38.1 95 38.1 95	second reasons and	6	2 0	in second second	-	~5 <5		1 226	2.88	<2	3.65	0.06	n sasinan	<0.00	eren er	<0.01	<1	40	<5	<20	3		e construit de la	<20	000000000000
38.1 96	eesse soo soo oo	14	12 0	2006-3000-9990-20	2	<5 <5	1.6 222.	stepped of the second	15.47	5	20	0.02	<1	0.13	00000000000000000000000000000000000000	< 0.01	<1	81	<5	<20	37	22 < 0.0	5.000.5.000.00.00 G	54	Newson and Street of St
38.1 96		3	24 1		6 540 *	<5	0.9 2.	Carlos and the transformer	>10		1.217	0.18	11	0.79	603	0.04	2	<5	8	<20	17	<10 0.27	20	<20	
38.1 97	Sugger soo waa in a	8	1 0.		8 12	<5	0.2 22.	2 145	5.54	<2	5.084	0.02	<1	<0.01	239	<0.01	<1	47	<5	<20	19	<10 <0.01	<1	<20	
38.2 28	1	4	2 0	2 349	4 549 *	<5	2.5 <0.	2 128	4.17	<2	0.107	0.13	5	0.41	1237	0.02	<1	<5	<5	<20	46	<10 <0.01	. 2	<20	
39.1 95	the state sectors.	10		24	NUMBER RECEIPTION OF THE PARTY OF		0.2 0.3		4.19		0.426	0.07	5	0.87	326	0.02	5	<5	7	<20		<10 0.05			
39.2 27	genen son a	14	6 0	10000000000000000000000000000	9 55 *	<5	0.1 0.		1.51	0.00100.00000000000	0.156	0.01	<1	0,04	340	0.01	<1	<5	<5	<20	2020.00000.007303007003000	<10 <0.0	1889/2000/02/2014	28.0899-00000	
39.2 27	s some server	9	3 0.	· · · · · · · · · · · · · · · · · · ·			California a contra a company	4 190	2		0.195	0.04	<1	0.3	174	0.01	<1	<5 -5	<5	<20	e consectores do Neillos	<10 <0.01	aasaa daha	<20	
39.2 27	sesses and a session of the second	82	erden ooro meanaria	2 2		010100000000000000000000000000000000000	0.8 0.	0000000333355550603	15.5	e de enconecteurse	0.262	<pre>cc.cc.scents.co.agec.scec</pre>	5	2.39	1369	0.05	<1	<5	16	<20	1,12,2010,000,000,000,000,0000	<10 0.03		2010/000/001220X/X	00000965888888
39.2 27	own researches	39 57	7 0. 21 0.	. Frank on a second second	to a state of the	<5 <5		2 174 2 58	6.36 6.83		0.327	0.07	2 8	0.31	250 1499	<0.01 0.01	<1 5	<5 <5	<5 8	<20 <20	- New York Contract States	<10 <0.01	Conference and the second	<20 <20	
39.2 95 39.2 95	Charlesse Series of	57 61	2,220,020,000,000,000,00	8 1 2 3		99999000000000000000000000000000000000	<ol> <li>Series (2010) 100 0000 000 000000</li> </ol>	2 58 4 167	C. 2007 - 202	200000000000000	0.387	000.00000000000000000000000000000000000	\$ <del></del>	2.07	696	0.03	5 10	-5 9	0 18	<20 <20	04.8500.00000000000000	90000000000000000000000000000000000000	248	£552,89 <b>7</b> 676666	
39.2 90	00	01	55	<u>د</u> ع	т Э	-0	0.4 0.4	107	10.11	~2	0.007	0.00	5	2.22	050	0.03	10	3	10	-20	5	-10 0.02	. 240	-20	

Map San	mple Location	Sample	Sample	Sample	Sample Description		* Ag	* Cu	* Pb	* Zn	* Mo
No. No.		Туре	Size (ft)	Site		Au ppb		opt ppm		% ppm	% ppm
39.2 959	91 Harvey Creek	С	2.7	OC	Sc w/ thin bands of dissem sulf	29	3.0	3 340	62	131	2
39.2 964	13 Harvey Creek	RC		OC	Fest, sil sc w/ py	<5		l 112	107	365	3
39.2 964	14 Harvey Creek	Rep	2.3	00	Sheared, weathered, fest sc w/ py	6	0.8	5 179	48	246	2
39.2 970	01 Harvey Creek	Rep	2.5	OC	Sil gs sc w/ sulf	20		5 174	99	145	7
40 238	31 Maid of Mexico Mine	CC	1.3	UW	Qz vn w/ minor py	383		5 87	190	237	4
40 238	32 Maid of Mexico Mine	CC	0.8	UW	Dol	1462		5 194	42	112	1
40 238	33 Maid of Mexico Mine	CC	0.8	UW	Slate	11	<0.1	1 48	36	85	12
40 238	34 Maid of Mexico Mine	CC	8.0	UW	Qz vn in dol w/ minor py	30		2 69	1844	29	3
40 238	35 Maid of Mexico Mine	Rep	4.5	UW	Sheared dol w/ qz stringers & minor py	679	0.7	/ 139	17	67	2
40 238	36 Maid of Mexico Mine	Rep		TP	Qz-calc vn w/ py	294	1	67	390	42	2
40 238	37 Maid of Mexico Mine	Rep	1.8	OC	Qz vn	<5	<0.1	55	30	34	2
40 238	38 Maid of Mexico Mine	RC			Mill feed of dol & qz	2098	3.5		1358	693	3
40 238		G			Mill concentrate	1.020			4226	679	9
40 239		G			Mill concentrate	1.076				746	10
40 262		S	1	MD	Qz vn w/ sulf	80	0.3	Concerning a product of the State	2002 (2003) (2003) (2003) (2003) (2003) (2003)	200	<10
40 957		RC	20. 11 Mar / 101 A. 1991	MD	Qz-rich zone w/ fg sulf @ contact	546	0.5		NAMES AND ADDRESS AND ADDRESS A	317	10
41 384		G	0.4	RC	Sil sc w/ bands of py	<5	000000000000000000000000000000000000000	account and reactions are accessed and	e economicano e como de como	207	4
41 865		С	3.7	OC	Fest, weathered sc w/ dissem py	12				111	3
41 957		Rep	1.8	OC .	Fest sil sc	<5	100000000000000000000000000000000000000	8 General Galance (1215 (1915) (1915)	000000.280300.2002000.000.00000.0000.000	119	5
41 969	Contraction of the second s	С	5.1	00	Fest, weathered sc w/ dissem py	<5	MARKAN AND AN AN ADDRESS OF A DREAM AND	NA WARRANT WARRANT WARRANT WARRANT WARRANT		284	3
42.1 957	🛥 ,	С	0.7	OC .	Weathered gs w/ msv banded sulf	676	16.6	5 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	2000-000 A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.	7481	<1
42.1 970	· · · · · · · · · · · · · · · · · · ·	S	unter une el que seconre u	MD	Sil msv sulf	2867	27.1	Contraction of the second seco	of the contraction of the contraction of the contraction of the	2.9 *	
42.2 344		C	0.8	TP	Fest sc	151	2.5			732	2
42.2 345		С	0.9	TP	Fest sc	172	2.4			1120	<1
42.2 346		C	0.6	TP	Sil, fest sc & msv py	1046	21.7	9026 min 5 5 6 5 5 9 5 6 5 7 5 6 7 5 6 7	<pre>ccesegerscergergergergergergergersche hetergergergergergergergergergergergergerge</pre>	1.0 *	2
42.2 347		С	0.3	TP	Gray sc w/ wisps of py	67	2.9			1875	2
42.2 348	na seconda de la companya de la construcción de	SS		8 <u>-</u> 14666	Taken from small stream w/ no bedrock exposed	10	0.3	2002 2010 2010 2010 2010 2010 2010 2010		314	1
42.2 349		G	0.3	FL	Sil, fest zone w/ py	105	1.3			317	13
42.2 350		C	0.4	OC .	Qz-calc vn w/ sulf	14	<0.1			138	4
43 28	Fortune	Rep	0.075	OC	Sulf band in sil gs	295	630.4		Martin Contraction and the second second	18.3 *	' 2
43 29	Fortune	Rep	2	00	Fest gs w/ bands of fg sulf	1590	188		entre property care weak placed of each de	10.7 *	1
43 211	conservation of the second	G		00	Sulf bands in sil gs	255	617	and the second sec		20.1 *	I I I I I I I I I I I I I I I I I I I
43 212		Rep	3	00	Qz.w/ sulf	420	54	요즘 이 이 이 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같	1 CAN ARABA SIGNA DI DEBUMI (ALEO - 20	3951	2
44 27	Hattie	G		MD	Qz	<5	<0.1			16	2
44 2630		ç	5	OC	Qz vn	<5	0.4	\$1689 9613 (2001) 111 (2002) 2003 (2003)	76	186	2
44 263		C .	5	00	Qz vn	10	<0.2			148	1
44 263		C	1.75	00	Qz vn	<5	<0.2		**************************************	26	3
44 2633 44 2634	A REAL PROPERTY AND A REAL	C	0.7	00	Qz vn	<5 	<0.2			25	2
(900)0000000000000000000000000000000000		0	4.5	00	Qz vn	<5	<0.2	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	00004-032-032000-032-7 <del>77</del> 4-66-2	25	3
44 263		G	<u>,</u>	RC	Qz vn	<5	<0.2			32	<1
44 2630		Rep	6	00	Qz vn	<5	<0.2		<1	19	2
45 190 45 191		Rep	3	00	Calc volc w/ bands of py, si	151	5.4		e an a construction of the second	2.2 *	
45 191 45 192		SC	4@0.25	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Calc volc w/ bands of py, si	96	6.1	Needona (1996) (2016) 2018 2018 2019	794	1.6 *	2
45 192 45 193	and a second	SC SC	4.7 @ 0.2		Fest, calc volc w/ py, trace fg si	33	1.2		117	1735	<1
45 193		C	0.07		Gray sil sc w/ py	16	1.3		131	588	2
45 194		C	0.07		Sil band w/ py, sl, trace gn in gray sc	44 423	10.5		3236	1.3 *	
40 (90	i Diusily Gleek	Y	4	00	Sil gs w/ dissem & banded py, sl	423	27.9	166	7380	2.6 *	1

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Map Sample			Ba *	Bi Ca	Cd	Сг		a Hg	K %	La	Mg %	Mn	Na %	Nb	Sb	Sc	Sn	* Sr	Te	Ti %	V	W	
No. No. 39.2 9591	ppm ppm % 72 42 2.		ppm xrf 126 *	ppm % <5 0.8		ppm 180 1		m ppm <2 0.252		ppm 7	2.45	ppm 1122	0.03	<u>ppm</u> 13	ppm <5	ppm 19	<u></u> <20	xrf ppm 10	<10	0.08	272	<20	xrf ppb ppb
39.2 9643	20 9 2.		404 *	<5 0.3	a na kana ka		7.58	9 0.68		3	2.58	852	0.04	<1	<5	10	<20	6	200000000000000000000000000000000000000	0.01	197	<20	
39.2 9644	40 19 1.	97	130 *	<5 0.1	0.9		381 201 201 201 202 202 202 202 202 202 20	10 0.363	0.02	3	2.36	731	0.05	<1	<5	17	<20		<10	0.02	263	<20	
39.2 9701	66 25 1.		21	<5 3.2	0.6			<2 0.38		8	2		<0.01	·6	<5	10	<20	ennes herne ennes annes a sam	and the second second	<0.01	99	<20	
40 2381	21 6 0.	220101010400000000000000	49 * 533 *	<5 3.3 <5 9.1	11.5		180800 - COLONDA COMOS	<2 0.32 <2 0.25	2000-000000000-00000	<1 3	0.38	288 1204	<0.01 0.01	2	<5 <5	<5 9	<20 <20	40 140	<10 <10	239930000000000000000000000000000000000	16 62	<20 <20	
40 2382 40 2383	46 30 0. 40 5 0.	· Markara and a state of the state of the	336 *	<5 9.1 11 28	6.3 1.8	and the second of a	source assessment of	<2 0.25 <2 0.09		3 5	0.66	2003	<0.01	5 6	>5 <5		<20	are a constant of a constant of the	<10	x	9	<20	
40 2384	16 6 0.	, ne noveboxe reproser of robber	105 *	<5 3.4	hears a confirmer adapted	0.000.000.0000000000	viškostorostor poda	<2 0.3	0.0000000000000000000000000000000000000	<1	0.5	alacanalasi dhasari, dare	<0.01	2	<5	<5	<20	40	6000.000.000 % cours	ester and a second	20	<20	
40 2385	29 26 0.	6 510	621 *	<5 8	2	43	6.93	<2 0.63	0.32	3	2.18	1126	0.01	3	<5	7	<20	113	<10	<0.01	33	<20	
40 2386	19 9 0.	2 10	163 *	<5 2.3	1.7	223	1.45	<2 0.543	3 0.1	<1	0.47	257	<0.01	2	<5	<5	<20	26	<10	<0.01	13	<20	
40 2387	14 5 0.	19.30 tit te	15 *	<5 0.2	ananan serapana			<2 0.03		<1	0.07	10.0000-000000-00-00-00-00-00-00-00-00-00	<0.01	<1	<5	<5	<20	3	-92000 (B.16) (B.16) (B.	64963-02 C.M.C.	9	<20	
40 2388	39 24 0.	and a second second	461 *	<5 6.8	0.00000.00000	an include and		<2 1.63	a service and a service of	2	2.21	909	0.01	2	8	6	86	141	concerning and a	a ea norrectrato	27	<20	CIE IN EXCERNICE PROVING
40 2389 40 2390	216 117 1. 201 113 1.	constructions where one	123 * 138 *	<5 0.04	38.9 37.8	10 3	2220-2220-2220-22202-2	<2 >5( <2 >5(	renariaan aaaloo	<1 <1	0.01		<0.01 <0.01	<1 <1	38 26	<5 <5	<20 <20	3		<0.01 <0.01	<1 <1	<20 <20	
40 2390 40 2620	201 113 1. 20 9 1.	. con a con con a con	138 *	<5 0.02 <2 5.3		en e serveite serte	aan maximuu	<z>50 10 0.10</z>	annan yn hwner an	<10	1.65	870	<0.01	* 1	20 <2	~5 7	~20	4 115	00.0006.00000000	<.01	77	<10	
40 9575	59 20 0.	960-000000000000000000000000	70	<5 5.1	<ul> <li>- och recording (pccqupurcup)</li> </ul>		1966 CE 2000 LO LO 2003 CE 20	<2 0.610	strenes industrial conser-	3	1.26	671	0.01	2	- <u>-</u> <5	<5	<20		<10	22552525525252525	19	<20	
41 384	62 46 1.		2351 *	<5 4.4	<0.2	73		<2 0.440	an a	4	1.55	SHORE STREET	<0.01	<1	<5	16	<20	48	servou concorrere	perorentine periore	144	<20	
41 8650	34 35 3.	7 30	2756 *	<5 0.3	<0.2	145	>10	<2 0.06	5 0.09	1	3.42	935	0.03	3	<5	14	<20	5	<10	0.19	239	<20	
41 9571	51 38 3.	3 22	5	<5 1.8	<0.2	116	15.5	3 0.28		3	3.05	1139		8	<5	18	<20	18	<10	e de la compañía de l	198	<20	
41 9699	<b>38 29 3</b> .	0.0000000000000000000000000000000000000	2470 *	<5 1.2		contraction face	tim termiter x anno	<2 0.769	200200-00000-00-00-0	oox een ruotaree	2.71	884	0.02	3	<5	17	<20	anaanaanan ah een	<10	0.12	228	<20	
42.1 9570	59 19 0 C	0 160	3	6 0.02	37.8	66 >1		<2 <0.0	000000000000000000000000000000000000000		<0.01	e 2001 co 2002	<0.01	<1	10	<5	<20		<10	0.02	2	<20	
42.1 9702 42.2 344	5 49 17 31 1.	0 92 6 43	<1 >20000 *	9 0.02 <5 0.05	144.6 1	54 2 77		<2 3.088 <2 1.6		<1 2	<0.01 0.48	2043	<0.01	<1 2	7 <5	<5 9	<20 <20	5 86	11 <10	0.02	<1 128	<20 <20	
42.2 344	24 37 1.	1966-011-000-02-00129-00028	1000 UC 2010 UC UC UC 2000 C X COLOR C X C 2000 C X C 2000	<5 0.05	1.1	96	<pre>ccccdddicade.xclasiae</pre>	<2 0.543	000.0000000000000000000	2	0.68	2043	0.01	2	~5 <5		<20	32		0.41	158	~20 <20	
42.2 346	6 16 0.		>20000 *	<5:0.01	45.1	52		<2 2.809		san san san daad	<0.01		<0.01	<1	8	<5	<20		10000000000000000000000000000000000000	0.03	7	<20	
42.2 347	42 39 2.	9 45	>20000 *	<5 2.9	7.9		000000000000000000000000000000000000000	<2 0.202	201000000000000000000000000000000000000	<1	1.88	4826	0.03	2	<5	11	<20	2.000000000000000000000000000000000000	<10	0.54	254	<20	
42.2 348	65 344 1.	1 42	2113 *	<5 0.7	1	48 1		<2 0.272	2 0.04	11	0.27	6.98	0.03	5	<5	5	<20			0.02	60	<20	
42.2 349	49 20 0.		3345 *	<5 0.03	1	And service seasons		<2 1.036		<1	0.11	492		<1	35	6	<20	da <b>na s</b> anan ing ang akara da sa kata		<0.01	29	<20	
42.2 350	4 4 0.	egel i su di segne segne segne	415 *	8 10	0.4	529333200-0.0006	Parada de la compañía	<2 1.599	ter en ser se se se se se se	5	1.32	2959		<1	<5	12	<20	355		enne starte a	49	<20	
43 28 43 29	14 45 0. 25 42 0.	And share the second	201 * 1655 *	<5 0.3 <5 0.5	1436 774	62 53		<2		1 3	0.18	748 5348	0.03	<1 <1	324 148	5 14	<20 <20	17	<10	<0.01 0.01	33 71	<20 <20	
43 29	19 61 0.	Na di Kanakatan di Kas	334 *	<5 0.3	1438		-961-961-961-991-992-	<2 37.2 <2 >50	00060503750375000 0006	2	0.42	1140	0.03	>) <1	642	6	<20		<10	CONCERCIÓN 20	30	<20	
43 212	4 10 0.		568 *	<5 0.6	n a serie a se	a contra a contra		<2 1.989		5	0.38	3868	0.03	<1	21	12	<20			0.01	25	<20	
44 27	16 7 0.	2	79 *	<5 0.8	, 200, gasteda lagi de secia	1000 IS		<2 0.737		<1	0.26		<0.01	<1	<5	5	<20		<10	2007 a	21	<20	
44 2630	6 2 0.	1 <2	40	<2 <.01	1.5	291	0.63 <	10 0.38	i <.01	<10	<.01	35	< 01		<2	1		<1		<.01	16	<10	
44 2631	610.	Constructions, communities on extern	30	<2 <.01		0.00000710080	1.04 <		too aasteonoofii tarat e	<10	<.01	45	<.01		2	1		<1		<.01	19	<10	
44 2632	7 2 0.		30	<2 < 01	000000000000000000000000000000000000000		0.84 <	2439 - 2240, MB-1949 - 24	0.000.000.000.000000	<10	0.01	50	<,01		<2	1		<1		<.01	17	<10	
44 2633	8 3 0.	anan san arang arang sa	40	<2 <.01	case or sport case canage of	000000000000000000000000000000000000000	0.97 < 1 05 <			<10	0.01	50 75	<.01		<2	1 3		<1	20310100	<.01	18	<10	
44 2634 44 2635	9 3 0. 11 5 0.	ennommen sommer o	10 10	<2 <.01 <2 <.01	2011-00-00 CD CC	14.0004.00000000000000000	1.85 < 3.88 <		1011219011-07-03-983	<10 <10	0.01	75 320	<.01 <.01		<2 <2	් 12		<1 <1		<.01 <.01	27 91	<10 <10	
44 2635	10 5 0.		30	<2 1			3.00 < 1.74 <	120.000.0000 000000.000 A	000000000000000000000000000000000000000	<10	0.03	320	<.01		<2	12	01000	20		<.01	46	<10	
45 190	42 28 4.	2 x 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3734 *	<5 4.3	81.3	0.00000.000 AUX		12 0.756	0.0000000000000000000000000000000000000	<1	2.94	51000 - 650 Mersel 6666 % Mersen	<0.01	<1	18	22	<20	54	<10 ·		259	<20	
45 191	37 27 3.		5014 *	<5 6.1	73.4	66	وريد ورويد وري وريون	10 0.6		<1	2.68	1684	annan cha annan	<1	18	19	<20	an and sectors. Taking	<10	and a subservation	contra a se pre	<20	
45 192	30 25 3.		1869 *	<5 2.4	7.6	77	6.28	9 0.172	. 0.1	<1	3.59	1662	<0.01	<1	13	16	<20	39	<10	<0.01	174	<20	
45 193	44 29 3.	ona na nastrativa nastrativa s	1078 *	<5 7.1	1.8		760-96-978-201999	10 0.048	88. e - 2 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	<1	2.17	2371	0110-0010236-520-58	<1	20	13	<20	73	e (de case (az es co	<0.01	154	<20	
45 194	32 27 0.	a state of a second state of	200 *	<5 25	46.3	ACCENTRATION OF	raanaana ahaa ka	<2 1.521	a cara a cara a c	<1	0.33		< 0.01	3	56	6	<20	173	and the second second	< 0.01	21	<20	
45 195	31 20 1.	4 600	297 *	<5 0.7	87.1	79	9.21	9 4.241	0.05	2	1.5	2217	50.07	<1	68	12	<20	9	12	<u.u1< td=""><td>36</td><td>24</td><td>0.55111.001</td></u.u1<>	36	24	0.55111.001

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No.         Type         Size (ft)         Site         Au ppb opt         ppm         opt         ppm         %	Мар	Sample	Location		Sample	Sample	Sample Description		* Ag	* Cu	* Pb	* Zn	* Mo	
45         6877         Brushy Creek         SC         15 (8) 220 C         Thinky badded melaseds & gary, sit s.g. gr, py         68         3.3         195         289         4904         22         99         3           46         999         Freek & Durham         SS         State, sc, qz. fical in stream         45         -0.1         14         3         55         -7         3           46         400         Freek & Durham         SS         No. bedroke exposed         9         -0.1         12         28         7         3           46         2816         Freek & Durham         S         No. bedroke exposed         -5         -0.1         8         4         13         -7         -7           46         2816         Freek & Durham         G         FL         Oz         No. bedroke exposed         -5         -0.1         8         4         -2         4         -7				Туре	Size (ft)	Site							% ppm	
45       6538       Franky, Creek       C       0.1       0.2       998       7.5       0.3       160       25       99       3.5         46       490       Freek Jourham       G       FL       Oz vn       -5       -0.1       13       -2.7       7.8       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       3.5       -7       -7       3.5       -7		9636	Brushy Creek										4	
dels         specific Source	100000000000000000000000000000000000000	36.99215336c.pp.cpp.cp.cp.cp.									5 million de l'adalement - 100 april 2007, 2007, 2007		2	
46       400       Freet & Durham       G       FL       Qx vn        S       <0.1       13       <2       7       3         46       2816       Freet & Durham       SS       No bedrock exposed       9       <0.11       23       11       93       < <th>         48       2817       Freet &amp; Durham       G       FL       Qz vn       no bedrock exposed       45       &lt;0.11</th> 23       14       93       <1         48       2817       Freet & Durham       G       FL       Qz vn       regeneration of the second       45       <0.11       8       43       13       <13       <12       44       13       <12       44       13       <12       44       13       <12       44       13       <12       44       13       <13       <12       44       13       <11       14       20       14       20       14       20       14       20       14       20       14       20       14       20       14       20       14       20       14       20       21       22       24       23       23       23       23       23       23       23       23       23<	48       2817       Freet & Durham       G       FL       Qz vn       no bedrock exposed       45       <0.11	45	9638	Brushy Creek	-	0.1	OC	Banded metaseds w/ banded py	-					-
def       2815       Freel & Durham       SS       No bedrock exposed       9       -0.1       23       11       93       -51         46       2817       Freel & Durham       G       FL       Q2       cs       -0.1       22       8       79       -1         46       2817       Freel & Durham       G       FL       Q2       cs       -0.1       8       -4       -13       -0.1       8       -4       -13       -14       13       -0.1       8       -4       -13       -14       13       -0.1       8       -4       13       -14       13       -0.1       7       -22       4       -14       14       13       -0.1       12       8       -24       -14       14       14       14       14       14       14       14       15       14       60       -11       15       14       60       -11       14       60       -11       24       42       12       14       60       -12       5       20       7       7       7       76       76       70       76       76       70       76       76       70       76       76       70       7	46	399	Freel & Durham	SS			Slate, sc, qz float in stream	15	<0.	1 14	4 3	55	<1	
46       2816       Freel & Durham       SS       Shallow straam w/ no badrock exposed       <5	46	400	Freel & Durham			FL	Qz vn	<5	<0.	1 1:	3 <2	7	3	
46.       2817       Freel & Durham       G       FL       Oz       Dz       13       ch1       8       <22       4       <13         42       2410       Read Show       PC       FL       Oz       Carl and Show       0       0.3       8       3       24       1         47       401       Road Show       SS       FL       Oz v fingments       <5	46	2815	Freel & Durham	SS			No bedrock exposed	9	<0.	1 23	3 11	93	<1	
46       Stell & Freel & Durham       G       FL       Qz       Stell & Freel & Stell & St		2816	Freel & Durham	SS			Shallow stream w/ no bedrock exposed			1 2:	28	79	<1	
47.1       401       Road Show       PC       Metased, metavolo, gr doning float in stream       10       0.3       8       3       24       47.1         47       402       Road Show       SS       No bedrock exposed       \$5       0.0       16       \$2       4       2         47       2820       Road Show       SS       No bedrock exposed       \$5       0.0       19       14       60       17         48       391       Mitkof Island, FS Rd 223       G       0.2       TP       May, fest pow hpl       18       6.8       1007       303       395       40       5       20       7         49       291       Zarembols, FS Rd 52009       G       0.2       FL       Purple & green fluoritie       18       <0.1	46	2817	Freel & Durham	G		FL	Qz	13	<0.	1 (	3 <2	4	<1	
47       402       Road Show       G       FL       Qz vn fragments       55       -0.1       16       -22       4       2         47       2820       Road Show       SS       No bedrock exposed       -55       -0.1       19       14       60       -1         47       2820       Road Show       SS       No bedrock exposed       -55       -0.1       19       14       60       -1         48       381       Mitkof Island, FS Rd 52008       G       0.2       FL       Purple & green fluorite       18       6.8       1007       303       395       -7         9651       Zarembols, FS Rd 52009       G       0.2       FL       Staufband wist & py       264       21       15       50       20       728       8.5       200       805       1.4       92       20       20       Frenchie, adt       C       5       OC       Fg may suff varbonale & silica       835       11.3       2206       600       1.4       4.4       92       20       20       216       Frenchie, adt       C       5       OC       78       8.1       100       1.4       144       49.2       24       24       24       24	46	2818	Freel & Durham			FL	Qz			1 1	34	13	<1	
47       2819       Road Show       SS       No bedrock exposed       -5       -0.1       28       12       90       -51         46       381       Mikof Island, FS RG 2645       G       0.2       TP       May, fest po w/ hbl       18       6.8       1007       303       395       44         49       291       Zarembo Is, FS Rd 52009       G       0.2       FL       Binetaceds win ancivelies of max py       546       3.1       15       20       7         49       9601       Trenchie, adit       C       5.5       UW       Sit sulf band wist & py       1204       12.1       5453       17.8       3.5       29         50       207       Frenchie, adit       C       5.5       OC       Pg mis sulf wid art band wist & py       1204       1.1       28.0       060       5862       29       50       2610       805       18.0       14.4       49       20         50       2617       Frenchie, adit       SC       6.0       0.5       0.C       Fig mis sulf wid carbinole & silica       825       11.3       2300       600       1.4       4       923       50       303       150       303       172       14.5       128<	47	401	Road Show	PC			Metased, metavolc, qz diorite float in stream	10	0.3	3 1	3 3	24	<1	
47       2820       Road Show       SS       No bedrock exposed       <6	47	402	Road Show			FL	Qz vn fragments	<5	<0.	1 10	S <2	4	2	
46       391       Miked Island, FS Rd 5245       G       0.2       TP       May, fest pow/nol       18       6.8       1007       303       395       44         49       2961       Zarembo Is, FS Rd 52009       G       FL       Purple & green fluotite       18       <0.1	47	2819	Road Show	SS			No bedrock exposed	<5	<0.	1 21	3 12	90	<1	
49       291       Zarembo Is, FS Rd 52009       G       0.2       FL       Purple & green fluorite       18 <ol> <li>15</li> <li>20</li> <li>17</li> <li>Frenchie adit</li> <li>C</li> <li>5.5</li> <li>UW</li> <li>Sil sulf band wi sl &amp; py</li> <li>266</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>161</li> <li>7.8</li> <li>163</li> <li>7.8</li> <li>161</li> <li>122</li> <li>130</li> <li>14.4</li> <li>140</li> <li>132</li> <li>130</li> <li>130</li> <li>130</li> <li>130</li> <li>130</li> <li>130</li> <li>144</li> <li>140</li> <li>144</li> <li>141</li> <li>144</li> <li>142</li> <li>1</li></ol>			Road Show	SS			No bedrock exposed						<1	
49       9651       Zarembols, FS Rd 52009       G       FL       Sil will band wisk by       1204       121       15       20       40       3         50       17       Frenchie, adit       C       5.5       UW       Sil sulf band wisk by       1204       121       1213       15453       1736       3.5       29         50       207       Frenchie, adit       C       5.5       OC       Py       729       8.5       2500       805       9882       29         50       2616       Frenchie, adit       C       5.6       OC       Ms sulf wid arbonale & silica       835       11.3       2300       600       1.4       40         50       304       Frenchie       C       0.8       OC       Graphilic phyllite       972       16.1       1214       1144       1923       50         50       305       Frenchie       C       1.8       OC       Graphilic phyllite       972       16.1       1214       1144       1923       50       306       Frenchie       C       1.8       OC       Caruusovite sc       13       <0.1	48	391	Mitkof Island, FS Rd 6245	G	0.2	TP	Msv, fest po w/ hbl	18	6.	3 100	7 303	395	4	
50       17       Frenchie adit       C       5.5       UW       Sil sulf band w/ sl & py       1204       12.1       5433       1736       3.5       29         50       18       Frenchie, adit       C       5.0       OC       Pisu sulf w/ sl & py       260       7.6       1619       3213       4.9       200         50       207       Frenchie, adit       C       5.5       OC       Py sulf w/ arbonate & silica       835       11.3       2300       660       1.4       40         50       2616       Frenchie, adit       C       6.00       DC       Frenchie       259       9.3       1300       1600       2.4       20       1037       8         50       305       Frenchie       C       0.4       OC       Sil zone w/ banded soff sil, py       26       2.3       47       1224       144       1424       1242       305       1737       8       175       15       15       305       Frenchie       C       1.8       0       C       2.8       5       75       305       75       307       Frenchie       C       1.8       0.2       75       1.5       39       300       861       1.7		291	Zarembo Is., FS Rd 52009	G	0.2		Purple & green fluorite			1 2 <sup>.</sup>	15	20	7	
50       18       Frenchie, adit       C       5       OC       Sil sulf band w/ si & p'       260       7.8       1619       3213       4.9       20         50       2016       Frenchie, adit       C       5.5       OC       Py       729       8.5       2800       805       9822       29         50       2616       Frenchie, adit       SC       6.0       0.0       Ms vulf       295       9.3       1300       1800       2.4       400         50       304       Frenchie       C       1.1       OC       Banded chert wi bands of fg sl, py       26       2.3       47       1200       1037       8         50       304       Frenchie       C       0.8       OC       Graphtic phylite       28       -0.1       281       1732       6971       4         50       306       Frenchie       C       1.8       OC       Banded chert with       301       18       1214       1144       1923       50       50       306       Frenchie       C       1.8       OC       2.1       50       50       50       50       50       50       50       50       50       50       50	49	9651	Zarembo Is., FS Rd 52009	G		FL	Sil metaseds w/ narrow lens of msv py	546	3.	1 1:	5 20	40	3	
50       207       Frenchie, adit       C       5.5       OC       Py       729       8.5       2600       805       9882       292         50       2616       Frenchie, adit       SC       6 @ 0.5       OC       Msy sulf       2810       335       11.3       2300       600       1.4       40         50       303       Frenchie, adit       SC       6 @ 0.5       OC       Msy sulf       281       729       8.5       261       123       47       1250       1037       8         50       304       Frenchie       C       0.8       OC       Graphitic phylite       28       <1.1			Frenchie, adit						<b>12</b> .	1 5453	3 1736	3.5	* 29	
50       2816       Frenchie, adit       S       0       5       0       C       Figure sulf w/ carbonate & silica       835       11.3       2300       600       1.4       40         50       2817       Frenchie, adit       SC       6@ 0.5       OC       Misv sulf       295       9.3       1300       1800       2.4       20         50       304       Frenchie       C       0.1       0       Barded chert w/ bands of fg sl, py       26       2.3       47       1220       1037       8         50       304       Frenchie       C       0.8       CC       Graphitic phyllite       28       <0.1	000002002000000000000000000000000000000	888 498 8 Persona a 1991	Frenchie, adit	ser eksel i beli tekke novoy ko	an a star a s	12 C C C C C C C C C C C C C C C C C C C	Sil sulf band w/ sl & py		7.	3 1619	3213	4.9	* 20	
50       2617       Frenchie, adit       SC       6 @ 0.5       OC       May sulf       295       9.3       1300       1600       2.4 *       20         50       303       Frenchie       C       1.1       OC       Banded chert w/ bands of g si, py       26       2.3       47       1250       1037       8         50       304       Frenchie       C       0.8       OC       Graphilic phylite       28       -0.1       281       1732       6971       4         50       306       Frenchie       Rep       1       OC       OC       OC       231       -0.1       73       291       50       50         50       306       Frenchie       C       1.8       OC       Banded chert w/ sulf       18       1       126       944       2340       3         50       306       Frenchie       C       4.6       OC       Sil zone w/ banded oul w/ sulf bands       26       0.7       131       933       708       4         50       9661       Frenchie       C       3.7       OC       Sil zone w/ banded vole w/ sulf bands       26       0.7       131       933       708       4       5	advantation of the second second		Frenchie, adit				Ру				) 805			
50       303       Frenchie       C       1.1       OC       Banded chert with bands of fg sl, py       26       2.3       47       1250       1037       8         50       304       Frenchie       C       0.8       OC       Graphilic phyllite       28       <0.1	aux81.545.0000	1999 (1996) - Alexandra (1997) - Alexandra (199	Frenchie, adit		needs array and share shore by	Surgere russusseurspillerer	Fg msv sulf w/ carbonate & silica		11.	3 2300	) 600	1.4	* 40	
50       304       Frenchie       C       0.8       OC       Graphitic phylite       28       <0.1       281       1732       6971       4         50       305       Frenchie       Rep       1       OC       Sil zone w/ banded sulf       972       16.1       1214       1144       1923       50         50       307       Frenchie       Rep       1       OC       0.2       russcovite sc       13       -0.1       73       23       175       <1			Frenchie, adit		6@0.5						) 1800	2.4	* 20	
50       305       Frenchie       C       4.7       OC       Sil zone w/ banded sulf       972       16.1       1214       1144       1923       50         50       306       Frenchie       C       18       0.1       73       23       175       <1	50	CX 10000000000000000000	Frenchie	С	1.1		Banded chert w/ bands of fg sl, py	26	2.3	3 41	7 1250	1037	8	
50       306       Frenchie       Rep       1       OC       Qz-muscovite sc       13       <0.1       73       23       175       <1         50       307       Frenchie       C       1.8       OC       Banded chert w/ sulf       1.8       1       126       944       2340       3         50       306       Frenchie       C       4.6       OC       Sil zone w/ banded sulf       488       15       380       638       2.1<*	50	304	Frenchie			1 No. 1 1	Graphitic phyllite		<0.1	1 281	1732	6971	4	
50       307       Frenchie       C       1.8       OC       Banded chert w/ sulf       18       1       126       944       2340       3         50       308       Frenchie       C       4.6       OC       Silz one w banded sulf       488       15       3830       638       2.1       32         50       960       Frenchie       C       2.3       OC       Banded, sil volc w/ bands of py, sil@ fault margin       28       2.5       75       3973       1.5       9         50       9661       Frenchie       C       0.3       OC       Sil, banded volc w/ sulf bands       26       0.7       131       933       708       4         50       9661       Frenchie       C       3.7       OC       Sil, banded volc w/ sulf bands       26       0.7       131       933       708       4         51.1       3064       Zarembo Island Homblendite       RC       0.2       C       Granite dike in homblendite       7       <0.1	50	305	Frenchie	С	4.7	00	Sil zone w/ banded sulf	972	16.1	l 1214	1144	1923	50	
50       308       Frenchie       C       4.6       OC       Sil zone w/ banded sulf       488       15       3830       638       2.1 *       32         50       9660       Frenchie       C       2       OC       Banded, sil volc w/ bands of py, sil@ fault margin       28       2.5       75       3973       1.5 *       9         50       9661       Frenchie       C       0.3       OC       Sil banded volc w/ bands of py, sil@ fault margin       28       2.5       75       3973       1.5 *       9         50       9662       Frenchie       C       3.7       OC       Sil, banded volc w/ bands of py, sil@ fault margin       28       2.5       75       3973       1.5 *       9         51.1       9662       Frenchie       C       3.7       OC       Sil, banded volc w/ bands of py, sil@ fault margin       485       10.1       1472       3029       3.7 *       24         51.1       9665       Zarembo Island Homblendite       SC       OC       Granite dike in homblendite       7       <0.1	CONTRACTOR OF A DESCRIPTION OF A DESCRIP	CONTRACTOR CONTRACTOR CONTRACTOR	Frenchie			- reaction of the second	Qz-muscovite sc		<0.1	1 73	3 23	175	<1	
50       9660       Frenchie       C       2       QC       Banded, sil voic w/ bands of py, sl @ fault margin       28       2.5       75       3973       1.5 *       9         50       9661       Frenchie       C       0.3       OC       Black slate in banded volc w/ sulf bands       26       0.7       131       933       708       4         50       9662       Frenchie       C       3.7       OC       Sil, banded volc w/ sulf bands       26       0.7       131       933       708       4         50       9662       Frenchie       C       3.7       OC       Sil, banded volc w/ sulf bands       26       0.1       1472       3029       3.7       24         51.1       311       Zarembo Island Homblendite       SS       Homblendite granodicite outcrop in stream       6       <0.1	1002000030401251254	2.294 Sec.26 (2000) 10 (100 200)				1, 2, 4, 6, 6, 6, 6, 7, 6, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,		20000000000000000000000000000000000000		. 60 000 00 00 00 00 00 00 00 00 00 00 00	272752222000000000000000000000000000000	Na a cala a cala cala cala cala cala cal		
50       9661       Frenchie       C       0.3       OC       Black slate in banded volc w/ sulf bands       26       0.7       131       933       708       4         50       9662       Frenchie       C       3.7       OC       Sil, banded volc w/ banded py, sl       495       10.1       1472       3029       3.7 *       24         51.1       311       9664       Zarembo Island Homblendite       SS       -       Homblendite & granodiorite outcrop in stream       6       <0.1			the second se		-		Sil zone w/ banded sulf							
50       9662       Frenchie       C       3.7       OC       Sil, banded volc w/ banded py, si       495       10.1       1472       3029       3.7       24         51.1       311       Zarembo Island Homblendite       SS       -       Homblendite & granodiorite outcrop in stream       6       <0.1	<1	-0000000-00-000000000000000000000000000			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				the state of a second		N1999-999999999999999999999999999999999	extensis i su recepto e contecesso ucono.	polo de desenteres telescencios pr	* 9
51.1       311       Zarembo Island Hornblendite       SS       Hornblendite & granodiorite outcrop in stream       6       <0.1	with the state of the state of the	and a second	e a la construir de la construir						a an ann an an an an air an an air	An				
51.1       9664       Zarembo Island Hornblendite       RC       0.2       OC       Granite dike in homblendite       7       <0.1	201200000000000000000000000000000000000	Steaded and the street sectors of	The second s		3.7	00	······································	and the second	2000, 0000010 000010 0000000000 1965 15	50000000000000000000000000000000000000	2000-2000 - 19 Oct 6 - 19 City 9 - 9 City 900 2	3.7	* 24	
51.1       9665       Zarembo Island Hornblendite       SS       Hornblendite outcrops in stream       <5			en en la companya de	tion for experience or restored		•	Hornblendite & granodiorite outcrop in stream				4	26		
51.1       9666       Zarembo Island Hornblendite       RC       OC       Fest, cg hornblendite w/ po, py       15       1.3       2760       9       90       3.         51.2       312       Zarembo Island Hornblendite       G       0.3       OC       Fest, hornblendite w/ po, py       7       0.2       520       5       45       7         51.2       313       Zarembo Island Hornblendite       SS       Hornblendite outcrops in stream       22       <0.1	202222000000000000000000000000000000000	CONS. (0) (NOV (0) 010 (0) 010		0.042.0520000000000000000000000000000000	0.2	OC		2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2		1997 (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1	13	14	<1	
51.2       312       Zarembo Island Hornblendite       G       0.3       OC       Fest hornblendite w/ po, py       7       0.2       520       5       45       7         51.2       313       Zarembo Island Hornblendite       SS       Hornblendite outcrops in stream       22       <0.1		e e la construction de la construction	and the second		teriore de la companya de la company		and an an an and the second							
51.2       313       Zarembo Island Hornblendite       SS       Hornblendite outcrops in stream       22       <0.1	reference researce services		C. CONSTRUCTION CONTRACTOR AND ADDRESS OF A STRUCTURE AND ADDRESS AND ADDRESS ADDRE	COMPRESSION AND AND AND AND AND AND AND AND AND AN		100 Sectors (001 Sector 301 Sectors)			en non de norden de la consection de la co		ner and service concerned of the	du Avenador co vicenceno lecelo.	3	
51.3       299       Zarembo Island Hornblendite       G       0.4       TP       Qz vn       7       <0.1			No. 1 In the second second second second to be been a second second second second second second second second		0.3	OC					and a second		7	
51.3       300       Zarembo Island Hornblendite       G       0.1       TP       Hornblendite w/ po, cp       30       1       787       5       38       2         51.3       301       Zarembo Island Hornblendite       G       0.2       TP       Hornblendite w/ po, bornite       14       0.8       1172       3       39       <1	24 <b>000000 010</b> 00000 0000	- 3600 X 100 00 12 0, 2 V	4. C. COLLECTOR AND AND AND ADDRESS STREET, Number of Address and Address Address and Address and Addre Address and Address a Address and Address and Addres Address and Address and Addre Address and Address and Address and Address	e carde del concerne acette.						ccoccoccoccoccoccoccoccocco	19 AN 1997 AN 1997 THE STOREST BORNESS	2009/38/38/20000120021.001.001	19972-0424010-0003-000-0055	
51.3301Zarembo Island HornblenditeG0.2TPHornblendite w/ po, bornite140.81172339<151.3309Zarembo Island HornblenditeSTPHornblendite w/ po, py, cp130.275658251.3310Zarembo Island HornblenditeS0.3TPCg hornblendite w/ po, py, cp12<0.1		e and a fact and the second second	terreter de la seu anno 1977 vezer en entreter en anno 1977 en el composition de la composition de la compositi											
51.3       309       Zarembo Island Hornblendite       S       TP       Hornblendite w/ po, py, cp       13       0.2       75       6       58       2         51.3       310       Zarembo Island Hornblendite       S       0.3       TP       Cg hornblendite w/ po, py, cp       12       <0.1	2000-0614-0600000-00-00	1999 C.			80000 Contracting Contracting Contracting	Se te ottos estante shu à		17 200 0.000 April 474 476		8 CON 19 THE SECOND CON 19 THE	가다 2013년 전 전문을 위해 주는 것 주말을		1993 (1993) - 1996 (1997) - 1997 (1997) - 19	
51.3       310       Zarembo Island Hornblendite       S       0.3       TP       Cg hornblendite w/ py, po       12       <0.1			and the second		0.2		an and have a strange and the second strange and the second strange and the second strange and the second strange strange and the second strange					and the second second second		
51.3       9657       Zarembo Island Hornblendite       Rep       RC       Hbl peg w/ mag, py       14       0.4       631       4       29       <1	2000/07/2001/02002/07/2002	07.7.7	A CONTRACTOR OF	1977: 202003-00094			· · · · · · · · · · · · · · · · · · ·	A 20.029000200000000000000000000000000000		- 1444 - Concession (Concession)	· · · · · · · · · · · · · · · · · · ·	(2) Since and the second state of the second s second second s second second s second second seco	848990038038842030800000	
51.3       9663       Zarembo Island Hornblendite       G       TP       Cg hornblendite w/ cg py, mag       9       0.2       201       9       71       <1			A REAL PROPERTY AND A REAL PROPERTY AND A REAL AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A		0.3									
51.4         298         Zarembo Island Homblendite         G         0.4         FL         Homblendite w/ po         17         0.3         1291         <2         19         <1           51.4         9656         Zarembo Island Homblendite         Rep         RC         Hbl peg w/ mag, py         10         0.2         60         4         52         2           52         15         Lost Zarembo         C         0.8         OC         Fest sil sulf band w/ si & py         89         14.8         1215         1960         4.0 *         4		45.55 Second and a second		-63 (2010) <b>- 1</b> 6 (2010) - 60 (2010)		0,0000				2001201000000000.0000000000000000000000		State 1997 (1997)	2010-002-002-00-00-00-00-00-00-00-00-00-00-	
51.4         9656         Zarembo Island Hornblendite         Rep         RC         Hbl peg w/ mag, py         10         0.2         60         4         52         2           52         15         Lost Zarembo         C         0.8         OC         Fest sil sulf band w/ si & py         89         14.8         1215         1960         4.0 *         4			CONTRACT REPORT OF A CONTRACT OF	COMPLEX AND ADDRESS OF A DECK			าด พื้อพร้างการการการแพทร์แก่นการการก็ได้หุ่งได้ว่าการการที่ได้การการการการการการการการการการการการการก				The second s	and Arrent And Arrest and Arrest		
52 15 Lost Zarembo C 0.8 OC Fest sil sulf band w/ si & py 89 14.8 1215 1960 4.0 * 4		000000000 10 MC 4940 1		n - den sousse se sous	0.4	-2013/10/10/00/00/00/10/2000		29 - 422 C. S.	consistent of the state of the	er in a second second second second second	, accessioned de la 187, 97, 97, 97, 97	States and states and second second		
											And the second sec			
52         16         Lost Zarembo         C         1         OC         Sil fest sulf band         108         22.1         3529         2856         3.7 *         36	2002/00/00/2022			0.001/0000000000000111-00166000	0.380uouopo.coo.co.co.co.co.co.co.co.co.co.co.co.c	5		5,769990000000000000000000000000000000000	0 000 ministration 2.0 0.0000.000000	a. 43 acad da anta 20, 3 38 anta 7		erregene der Kön de 1970 ha	100 10 100 100 100 100 100 100 100 100	
	52	16	Lost Zarembo	C	1	OC	Sil fest sulf band	108	22.1	3529	2856	3.7	* 36	

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Мар	Sample	ə Ni	Co	AI	As	Ba *	Bi	Са	Cd	Cr	Fe	Ga	Hg	ĸ	La	Mg	Mn	Na	Nb	Sb	Sc	Sn	* Sr	Те	Ti ۱	/ W	* Pt Pd
No.	No.	ppm	ppm	%	ppm	ppm xr	fppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm			ppm				· · · · · · · · · · · · · · · · · · ·	n xrf ppb ppb
45	9636	35	26	0.6	37	247 *	<5	24	29.7	15	3.8	<2	0.685	an anada cara	1	0.38	3188	contraction and d	3	59	6	<20	134			22 <2	
45	9637	44	2020202020202020	- 4 C.C. 50000000	76	1362 *	<5	6.7	19.4	64	8.02	8	0.389	0.14	3	80.000 ( CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CON	1869	0.02	1	63	13	<20		<10 <	derre hir de pode contes cons	35 <2	2011000103010301003030040301010101010300300
45	9638	23	21	and the state	33	563 *	<5		0.4	68	7.64	8	0.09	0.05		2.12		<0.01	1	<5	13	<20		<10 <		40 <2	-
46	399	33		0.9	<5	612	<5	0.2	<0.2	46	1.68	<2	<0.01	0.05	7	0.63	209	0.01	<1	<5	<5	<20			William and a resolution	31 <2	000100010001000000000000000000000000000
46	400	10		0.1	<5	57 *	n sees and door	0.04	<0.2		0.49		<0.01		<1	0.03	75	0.02	<1	<5	<5	<20	and an and a strength of the	<10 <		4 <2	
46	2815	64	a na service d	1.7	<5	729 *	<5	wer 805 o 1560 h	<0.2	92	2.85	3	0.025	ter district in teach	8	1.12	376	0.04	<1	<5	<5	<20		2.0000 2.00000000	899 million (* 1890) 1997 - Maria Maria (* 1890)	47 <2	
46	2816	52	an an an an an	1.3	5	689 *	<5		<0.2	v	2.58	a antes services co	0.021	0.09	10	0.85	445	0.02	<1	<5	<5	<20	na carnen en en el charte	and the second	With the state of a second	40 <2	Same and the state of the second s
46	2817	6	1	0.1	<5	133 *		0.02	<0.2	gende explore and pr	0.23	<2	0.012		2	0.04	42	0.02	<1	<5	<5	<20		<10 <	000000000000000000000000000000000000000	3 <2	nonene concernente de personación de consecto
46	2818	11		0.2	<5	156 *	<5 -5	0.1	<0.2		0.52		0.011	0.03	<1	0.08	106	0.02	<1	<5 -5	<5	<20		<10 <		5 <2	
47	401	9	4	0.7	<5	494 *	<5	0.4	<0.2	-22	1.12	<2	0.012	an a	9	0.41	224	0.03	<1	<5	<5	<20	20	0.000.000000.0000.00000000	-2011/0301/02010/02010	33 <2	2001 - 2010 000 0000 1000 X000 000 000 000 000
47	402	8	ويراجب مرتبات	0.1	<5	<10 *	<5	0.1	<0.2	00000.0000000	0.34		0.013		<1	0.01	000000000000000000000000000000000000000	< 0.01	<1	<5	<5	<20	esta estatu a cara de la com	<10 <	and a second	5 <2	
47	2819	20	11212020-000 etc	1.5	5	617 *	<5	0.5	< 0.2	48	2.24	100000000000000000000000000000000000000	0.034	<pre>&gt;</pre>	7	0.81	464	0.04	<1	<5	<5	<20		100000000000000000000000000000000000000	che iscene vice concor	57 <2 55 <2	20110001096100100110001001001000000000
47 49	2820 391	19 81	9 100	1.4 1.2	<5 9	595 * 103 *	<5 <5	0.4 1.2	0.3	50 39	2.16 >10	100000000000000000000000000000000000000	0.013	. 0.21 0.3	8 1	0.76	468 397	0.04	<1 <1	<5 <5	<5 7	<20 <20	26 39		Master Annoxices	55 ~2 98 <2	
48 49	291	2	ndik Baliata	1.2	9 40	22 *	<5 <5	9.9	<0.2	39 42	1.16	111.0000000000000	0.013	0.3	י 3	0.83		0.17	<1	<5	<5	<20	00.000000.0000000000000000000000000000	electric de techeco	anen senen er	90 ~2 30 <2	17 Mar 19 Mar
49 49	291 9651	2 5	21	0.7	826	144 *	<5	9.9	<0.2 3.1	and the second	19.99	540 Sec. 1997	0.108	0.37	8	0.27	ana ana ana ang ang ang ang ang ang ang	<0.01	1	68	~5 <5	<20		<10 <	a de la composición d	26 <2	
43 50	17	7	، بر 1>	0.1	1996 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 2	>20000 *	5	0.9	99.1	29	>10		1.883	ce coloccore che sur ross	<1	0.11	000000000000000000000000000000000000000	<0.01	<1	16	<5	<20		<10 <		4 <2	***************************************
50	18	9	<1	0.4	952	>20000 *	<5	0.1	168.9	37	8.08		0.904	0.05	<1	0.14	anana seine	<0.01	<1	7	<5	<20	19			6 <2	
50	207	13	800 (CE-18), P	0.5	290	>20000 *	<5	3.2	24	64	>10	<2	0.517	6.0000.000000000	1	0.3	518	0.02	<1	8	<5	<20		<10 <		16 <2	
50	2616	8	2	0.4	488	50	2		39.5	99	14.1	<10	1.05	n de la composition d	- <10	0.21	225	<.01		12	<1	-20	18	en Sarranan	a carriera en la coma de	10 <1	en en en en en en en en el serve en el serve
50	2617	7	2002/00000.0C	0.8	1010	20	<2	0.3	73	99	8.06	<10	0.57	0.18	<10	0.43	200	<.01	489912.010878	12	<1	0.000.2003	22		geowegenness we	14 <10	
50	303	. 8	<1	1	170	>20000 *	<5	2	2.5	33	3.22	and a second second	0.033	0.48	4	0.28	58	0.02	<1	<5	<5	<20	11	annan an a' te a' the a	an antes concer	24 <20	
50	304	32	50-8-8-7 <b>5</b> .243	2.1	11	4417 *	10000 (1994), 20-4	territe estis a des	8	114	2.64		< 0.01	0.09	43	2.85	nder uder na series der series	< 0.01	<1		<5	<20	1227	2003907 QC20302	200.577000P / CONP. 5	60 <2	n na ser e la seconda de seconda de secondo de
50	305		· · · · · · · · · · · · · · · · · · ·	0.1		>20000 *		0.04	7.2	and a sector of	12.68		0.862	*	<1	0.09		<0.01	<1	14	<5	<20		<10 <	den son a second	11 <2	the second s
50	306	3	fe hanc righter o	1.4	<5	3734 *	<5	0.1	0.2	80	1.39	C. NORCES 21	0.014	0.21	10	1.15	287	0.03	<1	<5	<5	<20	11	<10 <(	D.01	1 <20	
50	307	4	<1		38	>20000 *		0.3		100	2.24		0.032		13	0.66	320	0.02	<1	<5	<5	<20	37			16 <2	-
50	308	8	7	0.1	339	>20000 *	an de referencia de la de l	0.1	59.6	38	12	<2	0.482	<0.01	<1	0.07	122	<0.01	<1	19	<5	<20	10	A CORRECTION OF CORRECT	000000000000000000000000000000000000000	6 <20	0
50	9660	5	<1	0.6	87	>20000 *	<5:	0.01	36.9	53	2.55	<2	0.113	0.32	5	0.09	47	0.01	<1	6	<5	<20	2	11 <(	0.01	2 <2	0
50	9661	26	2	2.5	90	11297 *	<5	0.4	1.2	151	4.28	9	0.012	0.25	26	2.1	1114	<0.01	<1	<5	<5	<20	47	<10 <(	D.01	70 <20	0
50	9662	7	3	0.2	2406	>20000 *	<5	0.7	118.2	27 >	10.32	<2	0.723	<0.01	<1	0.15	575	<0.01	<1	49	<5	<20	11	<10 <(	0.01	11 <2	0
51.1	311	43	28	4.4	<5	378 *	<5	6.6	<0.2	136	7.68	4	0.02	0.63	<1	4.25	826	0.89	2	<5	37	<20	360	<10 (	).49 3	94 <20	0 11 6
51.1	9664	4	5	0.2	<5	897 *	<5	0.1	<0.2	97	0.57	<2	0.012	0.17	<1	0.02	18	0.06	<1	<5	<5	<20	18	<10 <(	0.01	2 <2	0 5 <1
51.1	9665	16	9	1.7	<5	633 *	<5	0.6	<0.2	23	3.23	3	0.218	0.21	9	0.87	600	0.32	<1	<5	5	<20	39	<10 (	D.11	88 <20	0 <5 1
51.1	9666	264	147	2.1	<5	677 *	<5	2	0.3	101	18.43	<2	0.026	0.47	1	1.85	547	0.35	<1	<5	13	<20	85	<10 (	).23 1	85 <20	0 10 28
51.2	312	37	62	2.2	<5	345 *	<5	2.5	<0.2	42	6.91	<2	<0.01	0.47	2	1.97	455	0.37	1	<5	22	<20	93	<10 (	).25 2 <sup>.</sup>	40 <20	0 <5 2
51.2	313	30	41	1.3	<5	642 *	<5	0.9	0.2	38	2.81	4	0.12	0.1	4	0.81	729	0.24	2	<5	6	<20	42	<10	0.1 1	06 <20	0 <5 4
51.3	299	4	11	2	<5	682 *	<5	1.7	<0.2	26	3.23		0.017	0.37	5	1.12	410	0.21	<1	<5	5	<20	148	<10 (	).21	35 <20	
51.3	300		1.6666.00000	1.6	<5	26 *	<5	1.8	<0.2	no de la devenió	27.47	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.041	0.28	1	1.34	347	0.28	<b>,</b> <1	<5	15	<20	75		0.0000.00000000000000000000000000000000	72 <20	aucos cuatos sexus cubresas subsessos
51.3	301	بمحتبث فيستعدده فريه		1.2	<5	16 *	<5	1.5	<0.2	a second as a second	32.15	00122002000010	0.039	0.18	1	1.2	151	0.17	<1	<5	14	<20	54	<10 (		58 <20	
51.3	309	3	(c)/(000008.860)	2.7	<5	683 *	<5	2.6	<0.2	restite teleses hist	7.89	00000000000000000000000000000000000000	0.059	0.4	<1	2.82	349	0.42	4	<5	35	<20		<10		49 <20	
51.3	310	7	an a	2.5	5	1034 *	<5	2.6	<0.2	28	6.92		0.029	0.72	3	1.8	617	0.37	<1	<5	11	<20	122			59 <20	
51.3	9657	2020/2016/2016/2016	0.40000.500000	1.2	<5	64 *	<5	1		114	6.24		0.016	0.04	<1	1.81	247	0.07	2	<5	13	<20	18			)5 <20	terreren de centre contrar en de l'Alexandre de la factories
51.3	9663	14	0.00000000	1.6	<5	812 *	<5	1.8	<0.2	57	5.06	orrest code	0.022	0.28	<1	2.33	329	0.27	1	<5	19	<20	76			33 <20	
51.4	298	251	148		<5	35 *	<5	1.4	000000000000000000000000000000000000000	147	7.69	<2	0.03	0.08	<1	1.3	193	0.13	<1	<5	13	<20	31	1911 (1919) - A <b>A</b> REA STATE	sterese tobetereserå	32 <2(	
51.4	9656	26	concerne que se	2.1	<5	349 *	<5	2.4	<0.2	34	5.37		0.011	0.37	4	1.87	446	0.29	<1	<5	18	<20	78	and and the second	00101000100010-0001	27 <20	
52	15	13	er o anemer z	0.3		>20000 *	<5	1.1	130.6	38	>10	persenantes	0.079	0.04	<1	0.12		< 0.01	<1	<5	<5	<20	16	concerned an interest		32 <20	
52	16	26	27	2.1	10	5188 *	8	0.04	112.3	55	>10	5	0.089	0.52	<1	0.63	272	0.03	<1	<5	<5	<20	5	<10 <0	0.01	13 <20	0

	Location		Sample Size (ft)	Sample Site	Sample Description	Au ppb	- L OPT	Ag * ppm opt	Cu ppm	* Pb % ppm		Zn * pm %	Mo ppm
No. No. 52 314	Lost Zarembo	Type C	2 Size (iii)	TP	Andesite	<u>Au ppu</u> <5		0.5	<u>ppin</u> 7	70 ppm 113		813	2 2
52 314 52 315	Lost Zarembo	C	1	TP	Sil, banded gs	~5 17		1.2	, 167	384	282620000000000000000	1827	27
52 315 52 316	Lost Zarembo	C	0.4	TP	Discontinuous band of fest, sil gs w/ sulf	38		8.9	1867	2225	a an	2.0 *	20
52 310 52 317	Lost Zarembo	C	1.2	TP	Sil, fest gs w/ sulf	37		0.4	66	135	8.980/PRO/RANG	2038	3
52 318	Lost Zarembo	č	0.8	TP	Fest, sil gs w/ sulf	58		27.6	3781	3657		4.6 *	44
52 319	Lost Zarembo	C	3.0	TP	Sil, banded gs w/ sulf	9		0.2	29	33	S. C. S. S. S. S. S. S. S. S.	331	<1
52 320	Lost Zarembo	č	1.6	TP	Sil, fest, fg rock w/ sulf	108	and the second	14.3	1204	1388	via naciona tenstroni.	3.5 *	. 4
52 321	Lost Zarembo	Ċ	2.6	TP	Sil, fest, fg rock w/ sulf	131		8.3	966	818	95536356600.00000.000	1.9 *	8
52 322	Lost Zarembo	Č	0.7	TP	Sil, banded gs	8		<0.1	15	16		220	2
52 2625	Lost Zarembo	G	0.4	OC	Sil msv sulf w/ sl, py, cp	180		16.7	870	3000		5.5 *	9
52 9658	Lost Zarembo	Rep	349.000	TP	Fest rhyolite	7		<0.1	21	12	2	74	10
52 9667	Lost Zarembo	Rep		RC	Sil, banded, msv sulf in sil volc host	151	048060808080	13.6	866	2817		4.9 *	7
52 9668	Lost Zarembo	RC		OC	Fest rhvolite	10		0.2	24	12	ļ.	147	10
52 9669	Lost Zarembo	Rep	1	TP	Very thinnly banded, sil volc	6		<0.1	9	8		119	<1
53.1 295	Zarembo Island Fluorite	Rep	3	00	Stained, sil zone w/ py on fractures	50		<0.1	3	15	i .	23	3
53.2 9654	Zarembo Island Fluorite	С	0.4	OC	Vuggy, crystalline qz br in andesite	13	, ,	<0.1	5	5	i	31	<1
53.3 296	Zarembo Island Fluorite	Rep	8	OC	Fest, banded andesite w/ py	15		<0.1	2	10	)	20	5
53.4 19	Zarembo Island Fluorite	G	0.3	OC	Geode	<5		<0.1	20	28		172	2
53.4 20	Zarembo Island Fluorite	G	0.3	OC	Geode	<5		<0.1	12	23		113	2
53.4 21	Zarembo Island Fluorite	G	0.1	RC	Fluorite vn in basalt	291		0.6	6	14	•	69	2
53.4 22	Zarembo Island Fluorite	C	3	OC	Sil, gray-green, banded volc	<5		<0.1	4	12	pine in s	36	1
53.4 23	Zarembo Island Fluorite	Rep	10	OC	Basalt	<5		<0.1	40	6	;	113	3
53.4 208	Zarembo Island Fluorite	G		RC	Geodes	<5		0.1	8	19	)	44	1
53.4 209	Zarembo Island Fluorite	G		RC	Geodes	<5		<0.1	10	18		55	2
54 293	ZF	G	1	0C	Fest felsite	7		<0.1	7	8		47	<1
55 354	Round Point	С	0. <del>9</del>	OC	Qz-muscovite sc w/ dissem cp, sl	68		55	2.1 '			1.1 *	17
55 355	Round Point	C	0.4	OC .	Qz-muscovite sc w/ dissem sulf	62		1	262	19	1	109	9
55 356	Round Point	G	0.1	OC	Qz-muscovite sc w/ bands of fg cp & sl	11		17.2	5588	32		3827	20
55 357	Round Point	С	0.8	OC	Qz-muscovite sc w/ bands & wisps of py, sl, trace cp	30		1.5	349	59	0000000-000000000	2245	7
55 358	Round Point	С	1.5	00	Qz-muscovite sc w/ bands & wisps of py, sl, trace cp	<5		0.5	29	165		3346	8
55 359	Round Point	С	0.1	OC	Sil band w/ dissem cp	<5	1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	2.9	2521	45	9196199000000000000	209	20
55 360	Round Point	С	1.5	OC	Qz-muscovite sc w/ qz vns	14		<0.1	28	23		27	6
55 9686	Round Point	C	5	OC	Sil, fest, pale gray sc w/ banded py & sl	6	Q259;	3.1	103	757		7000	8
55 9687	Round Point	S		OC	Very pale gray, fest sc w/ banded py & sl	8		2	122	31		1.5 *	7
56 8	Exchange	Rep	2	OC	Qz vn and fel dike w/ sulf	35		6.5	10	265		174	3
56 9	Exchange	Rep	3	OC	Qz vn and fel dike w/ sulf	131		18	23	632		86	2
56 12	Exchange	S	0.3	UW	Sulf-rich band in qz vn w/ py & gn	30		5.9	23	253	23873-007-00940°.	68	<1
56 13	Exchange	S	0.3	RC	Contact of qz vn & dike	89		11	9	381		56	2
56 14	Exchange	SS	-	0.5	Stream w/ granite porph float	<5		0.4	6	22	000000000000000000000000000000000000000	65	1
56 205	Exchange	RC	5	OC	Qz vn	43		9	6	348		7	2
56 10	Exchange, adit	Rep	3.2	UW	Oz vn w/ sulf	532		58	9	2660	5.5.550 chost date to th	204	2
56 11	Exchange, adit	SC	3	UW	Qz vn	<5		0.3	4	11		5	2
56 204	Exchange, adit	Rep	6.5	00	Fest qz vn	<5		0.1	15	13		27	2
56 206	Exchange, adit	RC	5	oc	Qz vn	923		26.6	6	944		8	2
57 63	Sunrise	PC			Stream in slate	<5		<0.1	9	9		72	<1
57 64	Sunrise	SS	alaanaa maa m	sa pelangan di dena 10.	Stream in slate	<5		<0.1	10	11		92	1
57 65	Sunrise	SS			Stream in slate	<5		<0.1	8	8		71	<1

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| Мар          | Samp        | le Ni    | Со                                                                                                              | Al                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | As                      | Ba *               | Bi Ca              | Cd                   | Cr                                      | Fe (                                    | Ga                                      | Hg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | к                    | La             | Mg           | Mn                                  | Na            | Nb       | Sb       | Sc        | Sn         |                                         | Te Ti                                       | V                                               | W                                        | * Pt Pd                                                                                                        |
|--------------|-------------|----------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------|--------------------|----------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|--------------|-------------------------------------|---------------|----------|----------|-----------|------------|-----------------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| No.          | No.         | ppm      | ppm                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ppm                     | ppm xr             |                    | ppm                  |                                         |                                         |                                         | pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | pm             | %            | ppm                                 |               | ppm      |          |           |            | xrf ppm                                 |                                             |                                                 |                                          | xrf ppb ppb                                                                                                    |
| 52           | 314         | 38       | ç oşalan çahaşır.                                                                                               | 4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11                      | 14343 *            | <5 0.9             | 3.9                  | 54 > 1                                  |                                         | 0.707972.5777.9                         | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.2                  | 20             | 3.29         | 1543                                | 0.02          | <1       | <5       | 10        | <20        |                                         | <10 0.0                                     |                                                 | <20<br><20                               |                                                                                                                |
| 52           | 315         | 4        | a de la composita                                                                                               | 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                       | 3.68%              | <5 0.04            | 0.3                  | ana |                                         |                                         | 0.017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.55                 | 24             | 1.1          | 392                                 | 0.03          | <1       | <5<br>~5 | <5<br><5  | <20<br><20 | 142                                     | <10 <0.0<br>12 <0.0                         | anana an a        | and a second second                      | 2 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (                                                                        |
| 52           | 316         | 11       | 4                                                                                                               | 4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5<br><5                | 7.54%<br>4.25%     | <5 0.04<br><5 0.1  | 86.5                 | ecose.po/striooosses                    | 5.51<br>2.12                            | 20 (<br>13 (                            | 0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.12<br>0.95         | 4<br>24        | 0.94<br>0.99 | 270<br>324                          | 0.06          | <1<br><1 | <5<br><5 | ~ə<br><5  | <20        | 122                                     |                                             |                                                 | erconorcomenten er                       |                                                                                                                |
| 52<br>52     | 317<br>318  | 4<br>33  | an and she                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         | 4.25%              | <5 0.1             | - 5- 6-00000         |                                         | de la constante                         |                                         | 0.112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.95                 | - 24           | 0.99         | 264                                 | 0.03          | <1       | ~5<br><5 | <5        | <20        | 3                                       |                                             |                                                 | <20                                      |                                                                                                                |
| 52<br>52     | 319         | 2        | 2020-0100 a com                                                                                                 | 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 15633 *            | <5 0.2             | 0.8                  |                                         | 1.93                                    |                                         | 0.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.42                 | 34             | 1.14         | 283                                 | 0.02          | <1       | <5       | <5        | <20        | 35                                      | 60363866666666666666666666666666            | rápsoková skolete zelek                         | ratposteo rinuna eco                     |                                                                                                                |
| 52           | 320         | 15       | accente año                                                                                                     | ang hidi pa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | *********************** | 20.54%             | <5 0.5             | aan ahisa            | 29 1                                    | tak to the off content                  | <2 (                                    | and a construction of the | 0.02                 | <1             | 0.08         |                                     | <0.01         | <1       | 6        | <5        | <20        |                                         | <10 <0.0                                    | 1 33                                            | <20                                      |                                                                                                                |
| 52           | 321         | 15       | and and a                                                                                                       | selete minoris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6                       |                    | <5 0.4             | 49.4                 | 44 1                                    |                                         |                                         | 0.037                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.12                 | <1             | 0.43         | <b>32</b> 1                         | 0.02          | <1       | <5       | <5        | <20        | 8                                       | <10 0.0                                     | 3 33                                            | <20                                      |                                                                                                                |
| 52           | 322         | 5        | 3                                                                                                               | 2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 19473 *            | <5 0.5             | <0.2                 | 47                                      | 3.34                                    | 10 <                                    | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.57                 | 25             | 1.82         | 417                                 | 0.03          | <1       | <5       | <5        | <20        | 52                                      | <10 0.0                                     | 9 57                                            | <20                                      |                                                                                                                |
| 52           | 2625        | 18       | 44                                                                                                              | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10                      | 10                 | <2 1.1             | >100.0               | 35 1                                    | 1.05 <                                  | <10                                     | 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.01 ·               | <10            | 0.04         | 805                                 | <.01          |          | <2       | <1        |            | 15                                      | <.0                                         | 1 34                                            | <10                                      |                                                                                                                |
| 52           | 9658        | 2        | <1                                                                                                              | 0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7                       | 177 *              | <5 0.01            | 0.7                  | 47                                      | 1.54                                    | 3 <                                     | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.13                 | 14             | 0.02         | 145                                 | 0.11          | 8        | <5       | <5        | <20        | 2                                       | <10 0.0                                     | Xu bara recommendes                             | <20                                      |                                                                                                                |
| 52           | 9667        | 11       | 25                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                       |                    | <5 1.2             | .195                 | Narray Instatuted                       | 6.18                                    |                                         | 0.086                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.02                 | <1             | 0.06         |                                     | <0.01         | <1       | 13       | <5        | <20        | 26                                      | 1997 C. | ans and a                                       |                                          | <5 2                                                                                                           |
| 52           | 9668        | 2        | aranang da                                                                                                      | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      |                    | <5 0.01            | 0.9                  |                                         | 1.17                                    | 1                                       | 0.018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.1                  |                | <0.01        | 119                                 | 0.08          | 8        | <5       | <5        | <20        | 4                                       | 02000200020000000000000000000000000000      | 0090-180903000000                               | 2000 T T                                 |                                                                                                                |
| 52           | 9669        | 3        |                                                                                                                 | 2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 19201 *            | <5 0.1             | <0.2                 | aa aaaa ahaa ahaa                       | 1.91                                    |                                         | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.55                 | 17             | 1.46         | 171                                 | 0.05          | <1       | <5       | <5        | <20        | 93                                      | an an in the second as the                  | an a contra                                     | a search and a second                    | oona maalataf waliiwata                                                                                        |
| 53.1         | 295         | 2        | ALCONG. 2000                                                                                                    | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 97                      | 299 *              | <5 0.1             | 0.4                  | e Mersénez (n. 18. é desen              | 0.97                                    | <2 <                                    | 200000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.25                 | 31             | 0.06         | 51<br>110                           | 0.02          | <1<br><1 | <5<br><5 | <5<br><5  | <20<br><20 | 3<br>3                                  | <10 <0.0<br><10 <0.0                        | and Sciences and                                | 2220 <b>-</b> 777-79                     | 0.00000000000                                                                                                  |
| 53.2         | 9654<br>296 | 4        |                                                                                                                 | 0.2<br>0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7<br>28                 | 211 *<br>263 *     | <5 0.02<br><5:0.01 | <0.2<br><0.2         | as according to the second              | 0.67<br>0.75                            | cross(c): (c): (c)                      | 0.012<br><0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.04                 | 11<br>30       | 0.02         | 32                                  | 0.05          | <1       | ~⊃<br><5 | <5        | ~20<br><20 | ann an | <10 <0.0                                    | uno response upper me                           | and the design                           | ANAL A CREAK S                                                                                                 |
| 53.3<br>53.4 | 290<br>19   | 2<br>7   | ovo a come                                                                                                      | 549 68 66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20<br><5                | 1768 *             | <5 0.8             | -0.2                 |                                         | 0.75<br>1.47                            | 222.2222222222                          | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.20                 | 38             | 0.33         | 176                                 | 0.00          | <1       | ~5<br><5 | -0<br><5  | <20        | 20.2000/0011/0002/0048                  | <10 <0.0                                    | en e        | ann fuairte th                           |                                                                                                                |
| 53.4         | 20          | 11       |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <5                      | 914 *              | <5 0.6             | ALCONDUCTION OF      |                                         | 1.23                                    |                                         | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.19                 | 33             | 0.24         | 133                                 | 0.11          | <1       | <5       | <5        | <20        |                                         | <10 <0.0                                    |                                                 | xe eesee 2022 (20                        |                                                                                                                |
| 53.4         | 21          | , .<br>3 | 0.0000.000                                                                                                      | 3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 132                     | 121 *              | <5 10              | 0.4                  | 200200000000000                         | 2.83                                    | ~~~~~~                                  | < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.79                 | 9              | 0.14         | 613                                 | 0.95          | 5        | <5       | <5        | <20        | 0.66 30 40 40 40 40 40 40               | <10 <0.0                                    | 2002/02/02/02/02 208                            | 202000000000                             |                                                                                                                |
| 53.4         | 22          | 10       | e anna a statut a                                                                                               | 0.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 243 *              | <5 0.9             | <0.2                 | second of accordent                     | 1.27                                    | 4 <                                     | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.26                 | 37             | 0.21         | 207                                 | 0.14          | <1       | <5       | <5        | <20        | 13                                      | <10 <0.0                                    | 15                                              | <20                                      |                                                                                                                |
| 53.4         | 23          | 51       | 29                                                                                                              | (2019) - Contra - Con | <5                      | 329 *              | <5 5.1             | <0.2                 | 107                                     | 9.15                                    | 8 (                                     | 0.019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.06                 | 16             | 3.2          | 1108                                | 0.52          | 6        | <5       | 21        | <20        | 209                                     | <10 0.0                                     | 7 180                                           | <20                                      |                                                                                                                |
| 53.4         | 208         | 6        | 2                                                                                                               | 0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 510 *              | <5 0.1             | <0.2                 | 157                                     | 1.09                                    | 2 <                                     | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.16                 | 29             | 0.22         | 112                                 | 0.09          | <1       | <5       | <5        | <20        | 9                                       | <10 <0.0                                    | 1 3                                             | 0.4.303570.075                           |                                                                                                                |
| 53.4         | 209         | 11       | 2                                                                                                               | 0.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 748 *              | <5 0.1             | <0.2                 |                                         | 1.3                                     | an a line an an                         | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.19                 | 32             | 0.36         | 94                                  | 0.11          | 1        | <5       | <5        | <20        | NR 2000000000000000000000               | <10 <0.0                                    | SALVAL AND DOG                                  | an a |                                                                                                                |
| 54           | 293         | 1        | <1                                                                                                              | 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 72 *               | <5 0.1             | <0.2                 | <ul> <li>consecutions of</li> </ul>     | 0.69                                    |                                         | 0.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.4                  | 5              | 0.03         | 79                                  | 0.02          | <1       | <5       | <5        | <20        |                                         | <10 <0.0                                    |                                                 | <20                                      |                                                                                                                |
| 55           | 354         | 4        | 13                                                                                                              | 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10                      | 6400 *             | <5 0.1             | 32.9                 | 61                                      | >10                                     |                                         | 0.139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.18                 | 10             | 0.15         | 261                                 | 0.02          | 2        | <5       | <5        | <20        |                                         | <10 0.0                                     |                                                 |                                          | Alata a state a sign                                                                                           |
| 55           | 355         | 3        | 5712532A-44                                                                                                     | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57                      | 4521 *             | <5 0.01            | 0.4                  | x (c) (c) (Tx (0)) (c) (c)              | 2.37                                    | 000000000000000000000000000000000000000 | 0.022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.36                 | 6              | 0.03         | Looked to be seen as seen a seen as | < 0.01        | <1       | <5       | <5        | <20        | 000000000000000000000000000000000000000 | <10 <0.0                                    | octocicile:contocol                             | <20<br><20                               | STREET, STREET, STR                                                                                            |
| 55<br>55     | 356         | 4        | 11<br>در                                                                                                        | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12                      | 7855 *<br>>20000 * | <5 0.02            | 12.4                 | 80<br>59                                | 3.5<br>2.68                             |                                         | 0.054                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.17<br>0.58         | 8<br>17        | 0.13         | 192<br>285                          | 0.01          | <1<br><1 | <5<br><5 | <5<br><5  | <20<br><20 | 95                                      | a nakimene w terristrasis                   | alaran da seria                                 |                                          | e constante de la constante de |
| 55<br>55     | 357<br>358  | 3        | e e constructivo de la constructivo de la construcción de la construcción de la construcción de la construcción | 1.8<br>1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7<br>46                 | 6291 *             | <5 0.1<br><5 0.03  | 7.9<br>1.7           | 0.0000.016.02000.000                    | 2.66<br>6.64                            | 0.5 X00 X0 X X X X X X                  | 0.036<br>0.024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.64                 | 22             | 0.47         | 150                                 | 0.04          | 2        | ~5<br><5 | <5        | <20        | 9000000000000                           | <10 0.0                                     | 9999 <b>9</b> 399999999                         | <20                                      |                                                                                                                |
| 55           | 359         | 5        | 8                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         | 4170 *             | <5 0.05            | 1.5                  | oncourse cas                            | 5.27                                    | <2 <                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.26                 | 16             | 0.23         | 335                                 | 0.06          | - 1      | <br><5   | <5        | <20        | an name and the the order of the        | <10 0.0                                     | where some same                                 |                                          | 90.573.000.000                                                                                                 |
| 55           | 360         | 3        | -1<br><1                                                                                                        | 0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13                      | 5820 *             | <5 0.1             | <0.2                 | enter nun e nad                         | 3.04                                    |                                         | 0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.34                 | .0<br>14       | 0.19         | 99                                  | 0.01          | 1        | <5       | <5        | <20        | 000406600000000000000                   | <10 <0.0                                    | an a        | <20                                      | and the second states                                                                                          |
| 55           | 9686        | 4        | a magnes i                                                                                                      | e si sugaranya                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15                      | 16934 *            | <5 0.1             | 21.1                 |                                         | 3.14                                    |                                         | 0.269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.53                 | 16             | 0.42         | 320                                 | 0.04          | 1        | <5       | <5        | <20        | 24                                      | <10 0.0                                     | 2 1                                             | <20                                      |                                                                                                                |
| 55           | 9687        | 5        | <1                                                                                                              | 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13                      | >20000 *           | <5 0.01            | 58.3                 | 99                                      | 3.01                                    | 5 (                                     | 0.527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.42                 | 3              | 0.17         | 148                                 | 0.03          | <1       | <5       | <5        | <20        | 45                                      | <10 <0.0                                    | 1 <1                                            | <20                                      |                                                                                                                |
| 56           | 8           | 13       | 6                                                                                                               | 0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 382 *              | 10 3,1             | 0.7                  | 177                                     | 3.29                                    | <2 (                                    | ).276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.25                 | 3              | 1.22         | 947                                 | 0.04          | 1        | <5       | 7.        | <20        | 551                                     | <10 <0.0                                    | 103-02 x 00 30 00 00 00 00 00 00 00 00 00 00 00 | 200000000000000000000000000000000000000  |                                                                                                                |
| 56           | 9           | 12       | 7                                                                                                               | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 167 *              | 29 2.1             | 0.8                  | 178                                     | 3                                       |                                         | ).153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.14                 | 2              | 0.7          | 666                                 | 0.05          | <1       | 6        | <5        | <20        | 323                                     | <10 <0.0                                    |                                                 | 10. 10. 10. 10. AM                       |                                                                                                                |
| 56           | 12          | 2        | 96600000000000000000000000000000000000                                                                          | :>:::::::::::::::::::::::::::::::::::::                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <5                      | 987 *              | 6 3.8              | 0.5                  |                                         | and a standard and a standard           | <2 (                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.24                 | 5              | 0.48         | 952                                 | 0.06          | <1       | <5       | <5        | <20        | 318                                     |                                             | 5805-0.000 <i>66</i> 8                          | 8063 <b>3</b> 000 Sociologi              |                                                                                                                |
| 56           | 13          | 9        | 3                                                                                                               | and the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <5                      | 28 *               | 14 0.7             | 0.4                  | as ferres as second as                  | 1.52                                    |                                         | 0.096                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.06                 | <1             | 0.23         | 278                                 | 0.04          | <1       | <5       | <5<br>- F | <20        | 117                                     | ana an     | in an       |                                          |                                                                                                                |
| 56           | 14          | 7        |                                                                                                                 | 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 506 *              | <5 0.4             | <0.2                 | seamented and the                       | 0.0000000000000000000000000000000000000 | <2 (                                    | 20092000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.18                 | 6              | 0.5          | 1460                                | 0.03          | 2        | <5       | <5        | <20        | 37                                      |                                             | 2000-20-20-00006                                | 100000000000000000000000000000000000000  | South States                                                                                                   |
| 56<br>56     | 205         | 14       | ן<br>ה                                                                                                          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <5<br>~5                | <10 *              | 14 0.01            | <0.2<br>1.2          | ,                                       | 0.48<br>3.76                            | <2 (                                    | 0.048 ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.01<br>0.13        | <1<br>2        | 0.02<br>1.43 | 43<br>1364                          | <0.01<br>0.04 | <1<br><1 | <5<br><5 | <5<br>7   | <20<br><20 | 3<br>573                                |                                             |                                                 |                                          |                                                                                                                |
| 56<br>56     | 10<br>11    | 8<br>8   | 9<br><1                                                                                                         | 0.5<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <5<br><5                | 213 *<br>11 *      | 71 4.1<br><5 0.3   | ۲.۲<br>0.2>          | 902000235023602020202                   | 0.4                                     | *******                                 | 0.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.13                 | <b>-</b><br><1 | 0.03         | 1304                                | 0.04          | <1       | ~5<br><5 | <5        | <20        |                                         |                                             |                                                 | ezenzenenann                             | 0.0000000000000000000000000000000000000                                                                        |
| 56           | 204         | o<br>7   |                                                                                                                 | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 231 *              | <5 0.3             | and according to the |                                         | 1.06                                    | 1.4. J                                  | 0.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.01                 | 5              | 0.03         | 460                                 | 0.01          | ~1       | ~5<br><5 | <5        | <20        | ata at sa anti a a a a                  | <10 <0.0                                    | . Or a construction from                        |                                          | 0.0000000000                                                                                                   |
| 56           | 204         | 9        | <1                                                                                                              | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | <10 *              | 37 0.04            | <0.2                 | rgestrauteded                           | 0.48                                    | 2002-00-02-0                            | 0.065                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CODEC: 0000000000000 | <1             | 0.03         | 88                                  | 0.01          | <1       | <5       | <5        | <20        | .00                                     | na sainge as na sain                        | 89400 (See the                                  | nonseense                                | 1010010000000000000000000                                                                                      |
| 57           | 63          | 16       | 5                                                                                                               | exective and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <5                      | 837 *              | <5 1.0             | <0.2                 | den Verland and an                      | 2.46                                    |                                         | 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.27                 | 11             | 0.73         | 614                                 | 0.16          | 7        | <5       | <5        | <20        | 122                                     | connector fuer secondered in the state      | 2000.000399731070100                            | contract in the second                   |                                                                                                                |
| 57           | 64          | 18       | 8                                                                                                               | 1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 705 *              | <5 0.6             | <0.2                 | 24646.00000000000                       | 2.84                                    | <2 (                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.18                 | 7              | 0.96         | 660                                 | 0.03          | 4        | <5       | <5        | <20        | 48                                      | <10 0.1                                     | 368                                             | <20                                      |                                                                                                                |
| 57           | 65          | 16       | 6                                                                                                               | 1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <5                      | 674 *              | <5 0.5             | <0.2                 | action de cese construit                | 2.43                                    | <2 (                                    | 0.045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.15                 | 7              | 0.83         | 547                                 | 0.03          | 4        | <5       | <5        | <20        | 43                                      | <10 0.1                                     | 2 59                                            | <20                                      |                                                                                                                |
|              |             |          |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                    |                    |                      |                                         |                                         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                |              |                                     |               |          |          |           |            |                                         |                                             |                                                 |                                          |                                                                                                                |

| Мар                                                                                                              |      | Location             | () (20) (20) (20) (20) (20) (20) (20) (2 | Sample               |       | Sample Description                            |           | * Ag                                                  | * Cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| No.                                                                                                              | No.  |                      | Туре                                     | Size (ft)            | Site  | O'll and the last                             | Au ppt    |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 58.1                                                                                                             | 467  | Steamer Bay          | G                                        | 0.4                  | FL    | Sil, qz gs br w/ po                           | 72        |                                                       | Service of the servic |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                                                                                  | 8719 | Steamer Bay          | G                                        |                      | FL    | Pale gray sil volc w/ dissem & veinlets of po | <5        |                                                       | 1.3. 13311333630 Die Wier Streiten                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 59                                                                                                               | 3821 | Wrangell Airport Pit | G                                        | a a state a decement | TP    | Peg dike                                      | <5        |                                                       | Second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 59                                                                                                               | 3822 | Wrangell Airport Pit | Rep                                      |                      | TP    | Gray, mg, bt granite                          | <5        | 10125210000013001011000000000                         | -5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 59                                                                                                               | 3823 | Wrangell Airport Pit | Rep                                      |                      | TP    | Alt granite w/ epidote                        | <5        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 60                                                                                                               | 76   | Salamander Creek Pit | G                                        | 0.3                  | RC    | Sil metaseds w/ po & cp                       | <5        |                                                       | 10.11.00000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 60                                                                                                               | 77   | Salamander Creek Pit | G                                        | 0.3                  | RC    | Fest, sil metased w/ po                       | <5        |                                                       | AND AN ARE ADDRESS OF A DREAM AND AND A DREAM AND A DREAM AND AND A DREAM AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 60                                                                                                               | 78   | Salamander Creek Pit | G                                        | 0.5                  | RC    | Sil fest sc                                   | <5        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 60                                                                                                               | 79   | Salamander Creek Pit | G                                        | 0.2                  | RC    | Sil fest sc w/ po                             | <5        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 60                                                                                                               | 80   | Salamander Creek Pit | G                                        | 0.7                  | RC    | Fest contact zone in metaseds                 | <5        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8 20 0 - 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| 60                                                                                                               | 243  | Salamander Creek Pit | S                                        | 1                    | TP    | Garnet-mica sc                                | <5        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 61                                                                                                               | 468  | Bruiser              | С                                        | 1.6                  | OC    | Qz w/ slate & po                              | <5        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 61                                                                                                               | 8720 | Bruiser              | С                                        | 0.2                  | oc    | Qz vn in blk sandy slates to phyllites        | <5        |                                                       | Active and an and a second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 61                                                                                                               | 8721 | Bruiser              | С                                        | 1                    | OC    | Qz vn in sandy slate                          | <5        | Contraction Contract Contract Contraction Contraction | 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 62                                                                                                               | 8716 | Niblack Island       | Rep                                      |                      | OC    | Fel int w/ trace cp                           | 11        |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 63                                                                                                               | 3690 | K&D Mine             | CC                                       | 2.3                  | OC    | Qz vn w/ ribbons of gray sulf                 | 994       | 26.                                                   | 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 63                                                                                                               | 3691 | K&D Mine             | С                                        | 1.2                  | OC    | Chl sc w/ minor po                            | 7         |                                                       | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 63                                                                                                               | 3692 | K&D Mine             | С                                        | 1.3                  | OC    | Carb sc w/ po                                 | 21        | 0.                                                    | 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 63                                                                                                               | 3693 | K&D Mine             | С                                        | 2.3                  | UW    | Qz w/ gray sulf, stibnite, po                 | 0.757     | * 5                                                   | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 63                                                                                                               | 3694 | K&D Mine             | S                                        |                      | UW    | Qz w/ stibnite, py, po                        | 7447      | 16                                                    | 9 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 63                                                                                                               | 3695 | K&D Mine             | Rep                                      |                      | OC    | Qz vn                                         | 55        | 0.                                                    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 63                                                                                                               | 8660 | K&D Mine             | C                                        | 0.3                  | OC    | Layer of gray sulf in gz vn                   | 3716      | 33.                                                   | 9 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 63                                                                                                               | 8661 | K&D Mine             | Rep                                      | 4.3                  | OC    | Qz vn                                         | 35        | 1.                                                    | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 63                                                                                                               | 8662 | K&D Mine             | Rep                                      | 1.6                  | OC    | Qz vn w/ minor py & gray sulf                 | 863       | 0.                                                    | 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 63                                                                                                               | 8663 | K&D Mine             | Rep                                      | 1.3                  | OC    | Chi to carb sc w/ py                          | 14        | 0.                                                    | 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 63                                                                                                               | 8664 | K&D Mine             | Ċ                                        | 0.5                  | 00    | Wedge of gray sulf in gz vn                   | 32        | 2.                                                    | 4 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 63                                                                                                               | 8665 | K&D Mine             | С                                        | 0.1                  | OC    | Unknown talc-like mineral                     | 179       |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 64.2                                                                                                             | 389  | Sun                  | CC                                       | 0.1                  | OC    | Msv band of gn w/ sl                          | 1411      | 1245.                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                                                                                                                  | 385  | The Islander         | CC                                       | 0.5                  | OC    | Qz-carb vn w/ py, sl, cp                      | 7352      |                                                       | contraction and contraction of contraction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                                                                                                                  | 386  | The Islander         | Ğ                                        | 1                    | õC    | Gw w/ py                                      | 116       |                                                       | and the state of t | a faile of the second s |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and the second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                  | 387  | The Islander         | Č                                        | 0.9                  | OC OC | Msv py, sl, cp                                | 1.077     |                                                       | www.concerner.orgenerged.co.ch/bold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| concernance and a second                                                                                         | 3668 | Cascade Mine         | c                                        | 5.6<br>4.4           | UW    | Sil sc w/ py                                  | 205       |                                                       | <ul> <li>Antonio angelago antonio antonio antonio</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Millio Incontra da Antonio de                                                                                    | 3670 | Cascade Mine         | G                                        | U                    | TP    |                                               | 4 i<br><5 |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|--------------|--------------|------------------------------------------------|--------------|---------------------|------------------------------------------------|--------------|------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------|-----------------------------------------|--------------|-----------------------------------------|----------------|-------------------------------------------------|----------|--------------|----------------------------------------------------------------------------------------------------------------|---------------|----------|----------|------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------|-------------------------|-----------------------------------------|
| No.          | <u>No.</u>   | pp                                             |              | all a second second |                                                | ppm          |                                          |             | xrf ppm                                                                                                               |                                                  | ppm                                      | ppm                                     | %            |                                         | ppm            | %                                               | ppm      | %            | ppm                                                                                                            | %             | ppm      | _ppm     |                                          |                  | xrf ppm                                                                                                        |                                         |                                                                                                                 |                | - <b>-</b>              | rf ppb ppb                              |
| 58.1<br>58.2 | 467<br>8719  | pairie a la c                                  | 9<br>11      | 13                  | 1.6<br>3                                       | 59<br>8      | 2.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | 243<br>482  | <5<br><5                                                                                                              |                                                  | and the second second second             | 70<br>61                                | 5.19<br>5.41 |                                         | 3.164<br>0.018 | ene energia and                                 | 3        | 1.71<br>1.64 | 1677<br>743                                                                                                    | <0.01<br>0.19 | <1<br>   | 7<br><5  |                                          | 31<br>36         | 90                                                                                                             |                                         | <0.01                                                                                                           | 32             | <20 *<br><20 *          | a ta shi shi sa shi sa                  |
| 59           | 3821         | 2010/02/02/02 12                               | 11<br>12     |                     | 0.4                                            | o<br><5      |                                          | 402         | ~u<br><5                                                                                                              |                                                  | 50000000000                              | isone contrained                        | 0.51         |                                         | <0.010         | 90.222000 - 00 - 00 - 00 - 00 - 00 - 00 -       | 12       |              | 743<br>61                                                                                                      | 0.19          | <1<br><1 | ຸວ<br><5 | 200000000000000000000000000000000000000  | - 36<br>44       | -333308080600-3                                                                                                | <10                                     | 0.13                                                                                                            | 4              | <20 *                   | 253552666522                            |
| 59           | 3822         |                                                | 9            |                     | 1.7                                            | <5           | -                                        | 1152        |                                                                                                                       | 0.9                                              |                                          |                                         | 2.7          |                                         | 0.013          |                                                 | 3        | 0.85         | 446                                                                                                            | 0.12          | <1       | ~5<br><5 |                                          | 322              |                                                                                                                |                                         | 0.02                                                                                                            | 25             | <20 *                   |                                         |
| 59           | 3823         | 000000000000000000000000000000000000000        | 7            | 5                   | 2                                              | <5           | 200 86,08, NO                            | 1012        | 1977 - 1987 <b>- 19</b> 77 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 | 5 2.1                                            |                                          | 107                                     | 2.7          | **********                              | <0.01          | 0.39                                            | 2        |              | 384                                                                                                            | 0.07          | <1       | <5       | erances respected to                     | 120              | 0.0002003000000000000000000000000000000                                                                        | <10                                     | 0.15                                                                                                            | 22             | <20 *                   |                                         |
| 60           | 76           | detra ane con                                  | 23           | 13                  | 2.6                                            | <5           | 5                                        | 124         |                                                                                                                       | 5 2.4                                            | and the second second                    | 136                                     | 4.15         |                                         | <0.01          | warma ka sa | 6        | 0.55         | 345                                                                                                            | 0.2           | 4        | <5       |                                          | <20              |                                                                                                                |                                         | 0.12                                                                                                            | 53             | <20                     |                                         |
| 60           | 77           |                                                | 46           | 17                  | 1.7                                            | <5           | 5                                        | 696 *       | * <5                                                                                                                  | 5 0.1                                            | 0.2                                      | 105                                     | 4.73         | <2                                      | 0.015          | 1.01                                            | 5        | 1.01         | 246                                                                                                            | 0.06          | 2        | <5       | 8                                        | <20              | 0.02303646-3393633                                                                                             | <10                                     | 0.17                                                                                                            | 92             | 62.80007963.55.25.05.05 | 1.5.5.5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 |
| 60           | 78           |                                                | 22           | 8                   | 1.8                                            | <5           | 5                                        | 861         | • <5                                                                                                                  | 6 0.4                                            | 0.3                                      | 123                                     | 4.15         | <2                                      | 0.014          | 0.65                                            | 6        | 1.25         | 347                                                                                                            | 0.06          |          | <5       | 11                                       | <20              | 10                                                                                                             | <10                                     | 0.14                                                                                                            | 111            | <20                     |                                         |
| 60           | 79           |                                                | 39           | 11                  | 2.6                                            | <5           | 5                                        | 933 '       | * <5                                                                                                                  | 5 0.6                                            | <0.2                                     | 133                                     | 5.58         | <2                                      | <0.01          | 1.49                                            | 5        | 1.57         | 525                                                                                                            | 0.12          | 4        | <5       | 16                                       | <20              | 23                                                                                                             | <10                                     | 0.27                                                                                                            | 211            | <20                     |                                         |
| 60           | 80           |                                                | 20           | 8                   | 1.9                                            | <5           | 5                                        | 704 '       | * <5                                                                                                                  | 6 0.3                                            | <0.2                                     | 138                                     | 3.21         | <2                                      | <0.01          | 0.9                                             | 6        | 0.85         | 168                                                                                                            | 0.08          | 2        | <5       | <5                                       | <20              | 27                                                                                                             | <10                                     | 0.15                                                                                                            | 80             | <20                     |                                         |
| 60           | 243          |                                                | 14           | 4                   | 3.6                                            | <5           | 5                                        | 1768 '      | * <5                                                                                                                  | i 0.1                                            | <0.2                                     | 85                                      | 6.35         | <2                                      | <0.01          | 2.25                                            | 10       | 2.24         | 220                                                                                                            | 0.07          | 4        | <5       | 12                                       | <20              | 5                                                                                                              | <10                                     | 0.31                                                                                                            | 190            | <20                     |                                         |
| 60           | 244          | (deleter)                                      | 13           | 00.00000000         | 2.7                                            | <5           | 5                                        | 995 '       | Macaaaaaaaaaaaaaaaaaaaaaaa                                                                                            | i 0.6                                            |                                          |                                         | 4.6          | 500.000.000.000                         | <0.01          | 1.43                                            | 8        | 1.58         | 673                                                                                                            | 0.11          | 4        | <5       | 8                                        | <20              | 30                                                                                                             | <10                                     | 0.25                                                                                                            | 96             | <20                     |                                         |
| 61           | 468          | and share and share                            | 46           |                     | 2.5                                            | <5           |                                          | 417         | es la su terre contenio                                                                                               | 5 2.4                                            |                                          |                                         | 2.17         |                                         | <0.01          | 0.42                                            | <1       | 0.78         | 238                                                                                                            | 0.13          | <1       | <5       |                                          | 133              | 1 <b>6</b> 8                                                                                                   | <10                                     | 0.08                                                                                                            | 47             |                         |                                         |
| 61           | 469          | 202-021-0206-021-022                           | 14           |                     | 0.3                                            | <5           | eren 1932)                               | 104         | na 1.000.000                                                                                                          | 6 0.1                                            | W.S.R. MARKON                            | 415, <b>3</b> (20 ) 20 (2               | 0.73         | 000000000000000000000000000000000000000 | <0.01          | 0.13                                            | 2        | 0.25         | 66                                                                                                             | 0.03          | <1       | <5       | 8360-000-000-07, S                       | 75               | 6                                                                                                              | 222000000000000000000000000000000000000 | 0.03                                                                                                            | 16             | <20 *                   |                                         |
| 61           | 8720         | xxx                                            | 25           |                     | 0.5                                            | <5           |                                          | 53          | water characteries                                                                                                    | i 1.5                                            | 0.00                                     | 219                                     | 0.6          | e o acceso e o                          | <0.01          | 0.13                                            | <1       | 0.27         | 186                                                                                                            | 0.04          | <1       | <5       |                                          | 54               | e persona do perso                                                                                             | <10                                     | 0.02                                                                                                            | المتحدية والمع | <20 *                   | to de anaces                            |
| 61           | 8721         | 22020-02-02-02-02-                             | renes sos    | <1                  | 10.000000.000                                  | <5           | econdar:                                 | <10         |                                                                                                                       | 0.1                                              | 00.00000000000000000000000000000000000   | 348                                     | 0.38         | sub succession                          | < 0.01         | On elaboration 100 (60)                         | <1       | 0.05         | 31                                                                                                             | 0.01          | 1        | <5       | e - co - c | 8                |                                                                                                                | <10                                     | 566977017750.55                                                                                                 | 3              | <20 *                   | 1925699                                 |
| 62<br>63     | 8716<br>3690 | 0000000000000000                               | 2<br>13      |                     | 1.0<br>0.1                                     | 70<br>523    |                                          | 42<br>125 * | · · · · · · · · · · · · · · · · · · ·                                                                                 | i 0.1                                            | state service and                        | 120                                     | 1.88         |                                         | < 0.01         | 0.49                                            | 29       | 0.02         | 126                                                                                                            | 80.0          | 2        | <5       |                                          | 6                | n ontranss dimension                                                                                           | <10                                     | 0.02                                                                                                            | 3              | <20 *                   | AND |
| 63           | 3691         |                                                | 15<br>15     | 2<br>44             | 0.1<br>4                                       | 523<br>12    | 000000000000000                          | 382 '       |                                                                                                                       | a na sana sa | 8 N N N N N N N N                        | 256<br>394                              | 0.81         | 22.000.000.00000                        | 0.507          | 0.03                                            | <1<br>6  | 0.12         | 42<br>856                                                                                                      | <0.01         | <1<br>2  | 6        |                                          | <4               | 022000000000000000000000000000000000000                                                                        | 11                                      |                                                                                                                 | 196            | <4 *                    | 000000000                               |
| 63           | 3692         | and the second                                 | 01           |                     | 2.1                                            | 8            |                                          | 894 *       |                                                                                                                       | 6.2                                              |                                          |                                         | 6.84         | 5                                       | 0.021          | 0.08                                            | 0<br><1  | 2.42         | 893                                                                                                            | 0.02          | 2        | <5<br>25 |                                          | <4 '<br><4 '     | democratic section of                                                                                          | <10<br><10                              | 0.23                                                                                                            | 186<br>100     | <4 *<br>8 *             | u na sera a secola                      |
| 63           | 3693         | 1                                              | 9            | 2                   | ere sied d                                     | 1.27%        | uotiporte gi e                           | 97 *        | 1912 I.S. (1912 1992)                                                                                                 |                                                  | 아이 아 | 08-017-877-82                           | 1.55         | <2                                      |                | 0.02                                            | <1       | 0.02         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                                                         | < 0.01        | <1       | 20<br>51 | <5                                       | ~4<br><4 '       | 0000000 <del>0000</del> 78                                                                                     | <10                                     | ಜ ನಂತನ್ ಹೊಂದಿಗೆ ಮಾಡಿದ್ದ ಮಾಡಿದ ಮ | 4              |                         |                                         |
| 63           | 3694         | nui 2                                          | 17           |                     |                                                | >10000       |                                          | 169 *       |                                                                                                                       |                                                  |                                          |                                         | 5.07         | <2                                      | 14.4           |                                                 | ાંગ      | 0.5          | No. in the second s | <0.01         | 1        | >2000    | <5                                       | 57               | u mun caercian                                                                                                 | <10                                     | and and a set                                                                                                   | 11             | <4 *                    | 2 - 1                                   |
| 63           | 3695         | 1909 (10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 8            | er e propri         | 0.4                                            | 70           |                                          | 433 *       |                                                                                                                       | - CC 20                                          |                                          | 125                                     | 0.25         | <2                                      | (2) 12 (52) 1  |                                                 | <1       | 0.04         | 4144131414                                                                                                     | 0.17          | <1       | 42       | N. N. N. 1996 (K. S.                     | <4 '             | 0.01310.0002039                                                                                                | <10                                     | 0007.657.664                                                                                                    | 2              | <4 *                    |                                         |
| 63           | 8660         | ;                                              | 55           |                     | 0.4                                            | 6323         | 6. Sví                                   | 1223 *      |                                                                                                                       | 3.1                                              |                                          | 150                                     | 3.81         | <2                                      | 2.06           |                                                 | i        | 0.38         |                                                                                                                | <0.01         | <1       | 24       | <5                                       | <4 '             |                                                                                                                | 11                                      |                                                                                                                 | 20             | <4 *                    |                                         |
| 63           | 8661         |                                                | 12           | 1 (                 | 0.04                                           | 24           | •••••                                    | <10 *       | ' <5                                                                                                                  | 0.02                                             | 0.3                                      | 218                                     | 0.36         | <2                                      | 0.029          | <0.01                                           | <1       | 0.08         | 106                                                                                                            | <0.01         | <1       | <5       | <5                                       | <4 '             | <u>۲</u> 2                                                                                                     | <10                                     | <0.01                                                                                                           | <1             | <4 *                    | 5 - 5 - 6 W - 6 8                       |
| 63           | 8662         |                                                | 14           | 1                   | 0.1                                            | 1376         | i                                        | 29 *        | <5                                                                                                                    | 0.1                                              | 4.7                                      | 276                                     | 0.59         | <2                                      | 0.055          | 0.01                                            | <1       | 0,16         | 45                                                                                                             | <0.01         | <1       | <5       | <5                                       | <4 '             | 3                                                                                                              | <10                                     | <0.01                                                                                                           | 3              | <4 *                    |                                         |
| 63           | 8663         | 11                                             | 19           | 32                  | 2.3                                            | 26           | ;                                        | 1247 *      | ' <5                                                                                                                  | 6.5                                              | 2                                        | 182                                     | 6.36         | 4                                       | 0.15           | 0.16                                            | 6        | 2.37         | 852                                                                                                            | 0.01          | 1        | 34       | 7                                        | <4 '             | 345                                                                                                            | <10                                     | <0.01                                                                                                           | 87             | 40 *                    |                                         |
| 63           | 8664         |                                                | 93           | 24                  | 0.6                                            | 10           | )                                        | 2933 *      | <5                                                                                                                    | 4.6                                              | 2                                        | 77                                      | 6.12         | <2                                      | 0.209          | 0.34                                            | 4        | 0.39         | 721                                                                                                            | 0.01          | <1       | 14       | <5                                       | 6 '              | 207                                                                                                            | <10                                     | <0.01                                                                                                           | 38             | 26 *                    | ar an an an an                          |
| 63           | 8665         | secological and a                              | 60           | 10                  | 1                                              | 50           |                                          | 1078 *      | u u la grana a la                                                                                                     | 0.6                                              | 2                                        | 171                                     | 2.65         | 10                                      | 0.118          | · 0.1                                           | 1        | 3.03         | 162                                                                                                            | 0.02          | 2        | 49       | <5                                       | <4 '             | * 56                                                                                                           | <10                                     | <0.01                                                                                                           | 10             | 19 *                    |                                         |
| 64 1         | 2807         |                                                | 33           | 2010-10011          | 1.5                                            | 13           | 0000-0000000000                          | 1254 *      | c810300300110139130                                                                                                   | 0.0000000000000000000000000000000000000          | 0.6                                      | 100000000000000000000000000000000000000 | 2.98         |                                         | 0.018          | 0.23                                            | 8        | 0.5          | 150                                                                                                            | 0.08          | 3        | <5       | <5                                       | <4 '             | 45                                                                                                             | <10                                     | 0.07                                                                                                            | 40             | 26 *                    |                                         |
| 64.2         | 389          | orana a con                                    | 17           | 1.11.120.001        | 2.3                                            | 173          |                                          | 641 *       |                                                                                                                       | 1.7                                              |                                          |                                         | 3.17         |                                         | 3.54           | 0.2 <del>9</del>                                | 6        | 0.68         | 1549                                                                                                           | 0.11          | 2        | 1017     | <5                                       | 942 <sup>י</sup> |                                                                                                                |                                         | 0.08                                                                                                            | 70             | <4 *                    |                                         |
| 64.2         | 8656         | cardo castra castrados                         | 001001000000 | 151                 | anterne ar                                     | 12           | ~~~~~                                    | 44 *        | 0.0000000000000000000000000000000000000                                                                               | 0.7                                              | 20000000000000000000000000000000000000   | 00.000000000000000000000000000000000000 | >10          | <2                                      | 0.031          | 0.03                                            | 6        | 0.22         | 102                                                                                                            | 0.1           | 1        | <5       | <5                                       | 6 '              | 요구 아파 아파 아파 아파 아파 아파                                                                                           | <10                                     | 0.07                                                                                                            | 16             | 6*                      |                                         |
| 65<br>CF     | 385          |                                                | 23           | 45                  | 1                                              | 129          |                                          | 39 *        | C                                                                                                                     |                                                  | constation and the                       |                                         | >10          | <2                                      | 4.88           | 0.09                                            | 1        | 0.77         | 986                                                                                                            | 0.02          | <1       | <5       | 5                                        | 6'               |                                                                                                                | <10                                     | 0.04                                                                                                            | 50             | <4 *                    | ain ia terasian sinterna                |
| 65           | 386          | 0.0000000000000000000000000000000000000        | 32           | 33                  | ~~~~~~~                                        | 14<br>10000  |                                          | 488 *       | eccore actor actors                                                                                                   | 4.1                                              | 2.5                                      | ia na nasi sa sing                      | 5.97         | <2                                      |                | 0.29                                            | 1        | 2.3          | 1151                                                                                                           | 0.04          | <1       | <5       |                                          | <4 '             | 101 H 101 102 102 102 102 10000                                                                                | <10                                     | 01300406-1520100010                                                                                             | 130            | <4 *                    |                                         |
| 65<br>65     | 387<br>388   |                                                | 12<br>2      |                     | 0.5                                            | 10000<<br>31 |                                          | <10 *       | service of Academic                                                                                                   | 0.1<br>10                                        | entranos antinarios                      | and the second second second            | >10<br>0.5   | <2<br><2                                | 30.1<br>0.116  | 0.03                                            | <1<br><1 | 0.43         | 458                                                                                                            | 0.03          | <1<br><1 | 7<br>~E  | and the second second                    | 22 '<br><4 '     |                                                                                                                | <10                                     |                                                                                                                 | 19             | <4 *                    |                                         |
| 65           | 8652         |                                                | 2<br>18      | 9. g. g 5. ogs      | 0.000                                          | >10000       |                                          | <10 *       |                                                                                                                       | 0.1                                              | <u>م</u><br>577.6                        |                                         | >10          | <2                                      | 26.02          | 20200300000000                                  | <1       | 0.06         | 714<br>286                                                                                                     | 0.01          | <1.      | <5<br>15 | <5<br><5                                 | 22 *             | 9000 TTTT & CO                                                                                                 | <10<br><10                              | 899923324666                                                                                                    | -9<br>4        | <4 *<br><4 *            |                                         |
| 65           | 8653         |                                                |              | 24                  |                                                | 1956         | 10.00 - NO 10.00 A                       | 211 *       |                                                                                                                       | 6.5                                              | www.com                                  | en enserance                            | >10          | <2                                      | 4.08           | a usa da la seconda da                          | 2        | 0.00         | 1114                                                                                                           | 0.07          | <1       | <5       | ~5<br>6                                  | <4 *             |                                                                                                                | <10                                     | 0.01                                                                                                            | 4<br>58        | <4 *                    |                                         |
| 65           | 8654         |                                                | 7            | to investorió       | 1999 B. S. | >10000       | 0.000000000                              | <10 *       | Community of the sec                                                                                                  | 0.3                                              | te da su taga taga t                     | 000000-00-00                            | 8.74         | erene eren eren eren eren eren eren ere | 18.98          | 0.03                                            | <1       | 0.00         | 277                                                                                                            | 0.04          | - 1<br>1 | ~5<br><5 | -5                                       | 28 '             | 988.00.000P.0.78                                                                                               | <10                                     | n de la constance de la constance de la constancia de la constancia de la constancia de la constance de la cons | - 56<br>13     | <4 *                    |                                         |
| 65           | 8655         | 32694.D                                        | 6            |                     | 0.4                                            | 85           | ssams.                                   | <10 *       | والمستجرب والمروحة والمعادية                                                                                          | ser a los                                        | 1.3                                      | 559-040-0-5-A-S                         | 0.9          |                                         | 0.065          | 200 0000 a 0 0 00                               | 3        | 0.41         | 446                                                                                                            | 0.02          | <1       | <5       |                                          | <4 '             |                                                                                                                | <10                                     | 0.01                                                                                                            | 20             | <4 *                    |                                         |
| 66           | 2800         | a et a mara a d'Arth                           | 34           | 11                  |                                                | 65           |                                          | 944 *       | 18 s s s s s s s s s s s s s s s s s s s                                                                              | 0.3                                              |                                          | 115                                     | 3.96         | 0.0000000000000000000000000000000000000 | 1.207          | 0.24                                            | 6        | 0.27         |                                                                                                                | <0.01         | <1       | 34       | 8                                        | <4 *             | r na suithFidd                                                                                                 | <10                                     | 696576677.5557                                                                                                  | 41             | 14 *                    |                                         |
| 66           | 2801         | <u> </u>                                       | 33           | 12                  | 0.4 >                                          | >10000       |                                          | 588 *       |                                                                                                                       | 0.1                                              |                                          | 165                                     | 2.77         |                                         | 0.187          | 0.18                                            | 4        | aaan maaaaaa |                                                                                                                | <0.01         | <1       | 38       | <5                                       | <4 '             |                                                                                                                | <10                                     |                                                                                                                 | 69             | <4 *                    |                                         |
| 66           | 2802         | 28 9 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1     | 28           | 3.3.897039          | 0.3                                            | 544          | 000000000000000000000000000000000000000  | 619 *       | 00000000000000000000000                                                                                               | 0.04                                             | 1997 - NA COMPANY                        | 165                                     | 2.59         |                                         | 4.015          | 0.19                                            | 4        | 0.01         | 2002-000-000-00-00-0                                                                                           | < 0.01        | <1       | 17       | <5                                       | <b>&lt;</b> 4 *  | a 161, 201, 201, 201, 201, 201, 201, 201, 20                                                                   | <10                                     | 969 C. B. C. S.                                                                                                 | 94             | 9*                      | ACCESSION SHEET                         |
| 66           | 3668         | 3                                              | 35           | 5                   | 0.4                                            | 197          |                                          | 439 *       | <5                                                                                                                    | 0.1                                              | 5.1                                      | 146                                     | 2.44         | conservation and                        | 0.251          | 0.16                                            | 3        | 0.02         | e Mercer prend terren                                                                                          | <0.01         | i        | 19       | <5                                       | <4 *             |                                                                                                                | <10                                     |                                                                                                                 | 105            | <4 *                    |                                         |
| 66           | 3669         | £                                              | 56           | 8                   | 0.4                                            | 26           |                                          | 1068 *      | <5                                                                                                                    | 0.8                                              | 3.9                                      | 109                                     | 2.72         | <2                                      | 0.083          | 0.22                                            | 6        | 0.29         |                                                                                                                | <0.01         | <1       | 17       | 5                                        | <4 *             | contraction de la constante de la seconda de la second |                                         | <0.01                                                                                                           | 48             | 7*                      |                                         |
| 66           | 3670         |                                                | 98           | 14                  | 0.6                                            | 14           |                                          | 1066 *      | <5                                                                                                                    | 0.4                                              | 1.1                                      | 96                                      | 3.69         | <2                                      | 0.052          | 0.28                                            | 6        | 0.84         | 316                                                                                                            | <0.01         | <1       | 8        | <5                                       | <4 *             | 12                                                                                                             | <10                                     | <0.01                                                                                                           | 35             | 4 *                     | :3.1                                    |
| 66           | 3671         | 2                                              | 25           | 4                   | 0.4                                            | <5           |                                          | 767 *       | <5                                                                                                                    | 0.3                                              | <0.2                                     | 181                                     | 1.48         | <2                                      | 0.03           | 0.13                                            | 6        | 0.16         | 84                                                                                                             | 0.01          | <1       | <5       | <5                                       | <4 *             | 11                                                                                                             | <10                                     | 0.01                                                                                                            | 41             | <4 *                    |                                         |
|              |              |                                                |              |                     |                                                |              |                                          |             |                                                                                                                       |                                                  |                                          |                                         |              |                                         |                |                                                 |          |              |                                                                                                                |               |          |          |                                          |                  |                                                                                                                |                                         |                                                                                                                 |                |                         |                                         |

|                                                   | Location             | Sample Sample  |                                          | Sample Description                           |            | * Ag                                                                                                           | * Cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | * Pb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *               | Zn               | * Mo     |
|---------------------------------------------------|----------------------|----------------|------------------------------------------|----------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|----------|
| No. No.                                           | 0                    | Type Size (ft) |                                          | 01 1 1                                       | Au ppb o   |                                                                                                                | opt ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>%</u><br>19  | ppm<br>351       | % ppm    |
| 66 3672                                           | Cascade Mine         | Rep 9          | TP                                       | Sil sc in shear zone                         | 183        | 0.9                                                                                                            | (c) (c) 010 (010) (c) (000) (000) (c) (000) (c) (000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 56 S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1990 CO 2000 CO | 100000 \$000,000 | 15       |
| 67.1 86<br>67.1 87                                | Buck Bar             | SS<br>SS       |                                          | Sand bar<br>Sand bar                         | 9<br><5    | 0.2<br>0.2                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9<br>1          | 61<br>66         | <1       |
| 5363532024600010001001001010000101010101010101010 | Buck Bar             |                |                                          |                                              | s⊃<br>7    | and a second | erren harronannen area a saara                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0               | 65               | 1        |
| 67.1 249<br>67.1 250                              | Buck Bar<br>Buck Bar | SS<br>SS       | 9851-1004-27879                          | Sandy clay river sed<br>Sandy clay river sed | 5          | <0.1<br><0,1                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1               | 66               | <1       |
| 67.2 2857                                         | Buck Bar             | PC             |                                          | Salidy day liver sed                         | 54         | <0.2                                                                                                           | 501100909999999999999999999999999999999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ,<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9               | 55               | <1       |
| 67.2 2858                                         | Buck Bar             | PC             | 1032101333                               |                                              | 36         | <0.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4               | 55               | <1       |
| 67.3 2856                                         | Buck Bar             | PC             | 894-30303137.02<br>1                     |                                              | 70         | <0.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ≠<br> 4         | 54               | <1<br><1 |
| 67.4 251                                          | Buck Bar             | SS             |                                          | Sandy clay river sed                         | 80         | <0.1                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1               | 76               | <1       |
| 67.4 252                                          | Buck Bar             | SS             |                                          | Sandy clay river sed                         | 15         | <0.1                                                                                                           | 200.1120002-002-002-002-002-002-002-002-002-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0               | 65               | <1       |
| 67.5 88                                           | Buck Bar             | SS             | n se sku in                              | Sand bar                                     | <5         | 0.2                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9               | 66               | <1       |
| 67.5 89                                           | Buck Bar             | SS             |                                          | Sand bar                                     | <5         | 0.3                                                                                                            | neengaada yaangar 1000ke 2000ke aa keesa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | edence steude recorde condex deuro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2               | 73               | 1        |
| 67.6 253                                          | Buck Bar             | SS             |                                          | Sandy clay river sed                         | <5         | 0.2                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8               | 67               | <1       |
| 68 <b>8</b> 4                                     | Mary Moose           | SS             |                                          | Sand bar                                     | 8          | <0.1                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 201000.001106.20000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2               | 84               | 1        |
| 68 85                                             | Mary Moose           | SS             |                                          | Sand bar                                     | <5         | <0.1                                                                                                           | 1. 22 million and a second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0               | 100              | 1        |
| 68 247                                            | Mary Moose           | SS             |                                          | Clayey sand                                  | <5         | <0.1                                                                                                           | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9               | 66               | <1       |
| 68 248                                            | Mary Moose           | SS             |                                          | River bank                                   | 29         | <0.1                                                                                                           | 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0               | 63               | <1       |
| 69.1 2859                                         | Andrew Creek         | PC             |                                          |                                              | 1058       | <0.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7               | 72               | . 3      |
| 69.1 3804                                         | Andrew Creek         | SS             |                                          | Gneiss & sc outcrop in stream                | 6          | <0.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6               | 81               | 2        |
| 69.1 3805                                         | Andrew Creek         | SS             | an a | Sc outcrop in stream                         | <5         | <0.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3               | 37               | 1        |
| 69.2 9691                                         | Andrew Creek         | SS             |                                          | Rhyolite outcrop in stream                   | 12         | <0.1                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1               | 169              | <1       |
| 69.3 145                                          | Andrew Creek         | G              | OC                                       | Gneiss w/ dissem po                          | 15         | 0.5                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3               | 151              | 10       |
| 69.3 146                                          | Andrew Creek         | G              | FL                                       | Qz vn                                        | 0.822 *    | 16.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9               | 16               | 4        |
| 69.3 361                                          | Andrew Creek         | SS             | and produced (Cont)                      | Granite & fei volc float in stream           | 34         | <0.1                                                                                                           | CONTRACTOR OF A DESCRIPTION OF A DESCRIP | a de la de la companya en anterna de la companya                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9               | 116              | 3        |
| 69.3 362                                          | Andrew Creek         | SS             |                                          | Abundant qz float in stream                  | 13         | 0.2                                                                                                            | enceners a constant production of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0               | 121              | 4        |
| 69.3 363<br>69.3 364                              | Andrew Creek         | SS<br>SS       | The second                               | Abundant qz float in stream                  | 493<br>15  | 0.3                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | i4<br>1         | 155              | 4        |
| 69.3 9688                                         | Andrew Creek         | RC             | E1                                       | Abundant qz float in stream                  |            | 0.3                                                                                                            | desetérés subsurgeresses des annonations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 700.0000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1               | 102<br>50        | 3        |
| 69.3 9689                                         | Andrew Creek         | RC             | FL<br>FL                                 | Vuggy qz<br>Vuggy qz                         | 558<br>162 | 0.8<br>0.4                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2<br>0          | 50<br>16         | ა<br>3   |
| 69.3 9690                                         | Andrew Creek         | RC             | FL                                       | Qz vn                                        | 301        | 0.4                                                                                                            | la forda da esta de conservação esta esta conde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | on a support of the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5               | 10               | 3        |
| 69.4 365                                          | Andrew Creek         | SS             | 1 -                                      | Abundant gz float in stream                  | 27         | 0.2                                                                                                            | a contractor of the contractor of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0               | 103              | 3        |
| 69.4 366                                          | Andrew Creek         | SS             |                                          | Abundant qz float in stream                  | 335        | 0.3                                                                                                            | 8.22 (C.C.) (C.C.) (C.C.) (C.C.) (C.C.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2               | 118              | 3        |
| 69.4 367                                          | Andrew Creek         | SS             | 00.010.000                               | Abundant gz float in stream                  | 117        | 0.3                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2               | 110              | 3<br>3   |
| 69.4 2848                                         | Andrew Creek         | SS             |                                          | Qz float in stream                           | 33         | <0.2                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9               | 104              | 3        |
| 69.4 2852                                         | Andrew Creek         | SS             |                                          | Sc outcrop in stream                         | 16         | 0.4                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CONTRACTOR CONTRACTOR CONTRACTOR OF CONTRACTOR CONT | 3               | 132              | 4        |
| 69.4 3750                                         | Andrew Creek         | G              | FL.                                      | Qz w/ minor py                               | 137        | 1                                                                                                              | Canal Construction of Andrew                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PP Analogoaccondector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7               | 13               | 3        |
| 69.4 3802                                         | Andrew Creek         | SS             |                                          | Gneiss & sc outcrop in stream                | 21         | 0.3                                                                                                            | 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1               | 126              | 3        |
| 69.5 2849                                         | Andrew Creek         | S              | FL                                       | Qz                                           | 141        | 0.9                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9               | 4                | <1       |
| 69.5 2850                                         | Andrew Creek         | Rep            | FL                                       | Qz                                           | 1992       | 2.1                                                                                                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ı 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1               | 12               | 9        |
| 69.5 2851                                         | Andrew Creek         | SS             |                                          | Sc float in stream                           | 24         | 0.3                                                                                                            | 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7               | 135              | 2        |
| 69.5 3800                                         | Andrew Creek         | G              | FL                                       | Fest qz w/ fg py                             | 693        | 0.5                                                                                                            | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3               | 10               | 2        |
| 69.5 3801                                         | Andrew Creek         | G              | RC                                       | Br qz vn w/ fg sulf                          | 480        | 1.1                                                                                                            | and the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1               | 10               | 7        |
| 69.6 2853                                         | Andrew Creek         | SS             |                                          | Sc float in stream                           | 23         | 0.5                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4               | 116              | 4        |
| 69.6 3803                                         | Andrew Creek         | SS             | haddar <u>a</u> n ar an ann an ann       | Gneiss & sc outcrop in stream                | 54         | 0.8                                                                                                            | AND AND A RECEIPTION OF A DATA AND A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | the encounterments remained the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6               | 112              | 2        |
| 69.7 368                                          | Andrew Creek         | G 0.7          | RC                                       | Fest qz vn                                   | <5         | <0.1                                                                                                           | 0000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 000 / 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 86.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.000 (0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3               | 21               | <1       |
| 69.8 369                                          | Andrew Creek         | SS             |                                          | Metased float in stream                      | 6          | 0.5                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7               | 245              | 4        |
| 69.8 370                                          | Andrew Creek         | SS             | 2010 Q.                                  | Metased float in stream                      | 18         | 0.7                                                                                                            | 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3               | 318              | 4        |

.

 $(\mu_{1},\mu_{2})=(\mu_{1},\mu_{2},\mu_{2})$ 

| Map Sample             | 0.03.03.000 | 1990-1990-1990-1990-1990-1990-1990-1990     | Al              | As          | Ba *             | Bi                                      | Са                     | Cd                                       | Cr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fe               | Ga                                                                                                             | Hg                                        | K                                       | La                                       | Mg               | Mn                                    | Na                | Nb        | Sb        | Sc        | Sn                   | * Sr                                                                                                           | Te                                      | Ti<br>%                     | V                 | W * Pt Pd<br>ppm xrf ppb ppb                                                                                     |
|------------------------|-------------|---------------------------------------------|-----------------|-------------|------------------|-----------------------------------------|------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------|------------------|---------------------------------------|-------------------|-----------|-----------|-----------|----------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|-------------------|------------------------------------------------------------------------------------------------------------------|
| No. No.                |             | ppm                                         |                 | ppm<br>4574 | ppm xrl<br>503 * | <u>ppm</u><br><5                        | <u>%</u><br>0.1        | ppm<br>17.3                              | ppm<br>166                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>%</u><br>1.85 | ppm<br><2                                                                                                      | ppm<br>0.156                              | <u>%</u><br>0.14                        | <u>ррт</u><br>2                          | <u>%</u><br>0.08 | <u>ppm</u><br>48                      | <u>%</u><br><0.01 | ppm<br><1 | ppm<br>14 | ppm<br><5 | <u>ppm x</u><br><4 * |                                                                                                                |                                         | <0.01                       | 84                | < <u>&gt;&lt;4</u> *                                                                                             |
| 66 3672<br>67.1 86     | 40<br>30    | 11                                          | 0.3             | 4574<br><5  | 503<br>148       | <5<br><5                                | 0.1<br>2.1             | 0.2                                      | 2012/11/28/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.98             | -2                                                                                                             | 0.025                                     | 0.14                                    | - 8                                      | 1.02             | 452                                   | 0.06              | 2         | ,-<br><5  | <5        | <20                  | 60                                                                                                             | 0.000000-0000                           | 0.09                        | 60                | <20                                                                                                              |
| 67.1 87                | 30          | 12                                          |                 | <5          | 146              | <5                                      | 1.7                    | 0.2                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.27             | and a state of                                                                                                 | 0.029                                     | 0.11                                    | 9                                        | 1.04             | 497                                   | 0.06              | 3         | <5        | <5        | <20                  | ana chanairea                                                                                                  | <10                                     | 0.09                        | 66                | <20                                                                                                              |
| 67.1 249               | 30          | 12                                          |                 | 5           | 159              | <5                                      | 2.1                    | 0.3                                      | actorios rostor unas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.46             | 3                                                                                                              | 0.02                                      | 0.1                                     | 9                                        | 1.09             | 515                                   | 0.05              | 2         | <5        | <5        | <20                  | 59                                                                                                             | <10                                     | 0.1                         | 71                | <20                                                                                                              |
| 67.1 250               | 32          | 13                                          |                 | 6           | 170              | <5                                      | 2                      | 0.3                                      | and the second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.63             | 3                                                                                                              | 0.019                                     | 0.11                                    | 9                                        | 1.08             | 518                                   | 0.05              | 3         | <5        | <5        | <20                  | 62                                                                                                             | <10                                     | 0.1                         | 74                | <20                                                                                                              |
| 67.2 2857              | 10          | 18                                          | 0.2             | <5          | 172 *            | <5                                      | 0.5                    | <0.2                                     | 124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | . >10            | 9                                                                                                              | <0.01                                     | 0.03                                    | 48                                       | 0.15             | 614                                   | 0.03              | <1        | <5        | <5        | <20                  | 8                                                                                                              | <10                                     | 0.12                        | 0.001070171110000 | <20                                                                                                              |
| 67.2 2858              | 11          | 17                                          | 0.4             | <5          | 269 *            | <5                                      | 0.7                    | <0.2                                     | 132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | >10              | 10                                                                                                             | 0.014                                     | 0.06                                    | 65                                       | 0.3              | 689                                   | 0.06              | <1        | <5        | <5        | <20                  | 14                                                                                                             | 0.0055030104010                         | 0.14                        | 9.00.4000.000     | <20                                                                                                              |
| 67.3 2856              | 12          | 15                                          | 0.6             | <5          | 23               | <5                                      | 0.9                    | <0.2                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | >10              |                                                                                                                | 0.032                                     | e contra comuna                         | 92                                       | 0.44             | 715                                   | 0.09              | <1        | <5        | <5        | <20                  | 18                                                                                                             | 10                                      | 0.16                        |                   | <20                                                                                                              |
| 67.4 251               | 28          | 14                                          | 1               | <5          | 107              | <5                                      | 1.4                    | 0.3                                      | See 2010 10 10 10 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15.38            | 802-3030-686                                                                                                   | 0.019                                     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 14                                       | 0.89             | 550                                   | 0.04              | 9         | <5        | <5        | <20                  | 44                                                                                                             | 00000000000000                          | 0.11                        | soonaan deo       | <20                                                                                                              |
| 67.4 252               | 30          |                                             | 1.3             | <5          | 163              | <5                                      | 1.8                    | 0.3                                      | en en de la desenvoir e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.39             |                                                                                                                | 0.034                                     | 0.09                                    | 9                                        | 1.06             | 510                                   | 0.05              | 4         | <5<br><5  | <5<br><5  | <20<br><20           | 56<br>56                                                                                                       | <10<br><10                              | 0.1                         | 93<br>73          | <20<br><20                                                                                                       |
| 67.5 88                | 29          | n la constantes                             | 1.3             | 6           | 159              | <5<br><5                                | 1.8                    | 0.3                                      | and an an and a state of the st | 3.62<br>3.82     |                                                                                                                | 0.024                                     | 0.09                                    | 9<br>9                                   | 1.05             | 508<br>564                            | 0.06              | 3         | <5        | <5        | <20                  | Second a second second                                                                                         | <10                                     | 0.05                        | 76                | <20                                                                                                              |
| 67.5 89                | 30          | 13<br>11                                    | 1.4             | 6<br><5     | 185<br>161       | <5                                      | 1.9<br>1.7             | 0.3                                      | open accommente                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.19             |                                                                                                                | 0.020                                     | 0.11                                    | 8                                        | 1.01             | 504                                   | 0.06              | 3         | ~~<br><5  | <5        | <20                  |                                                                                                                | <10                                     | 0.09                        | 62                | energy and the second |
| 67.6 253<br>68 84      | 28<br>33    | 14                                          | 20100120100-001 | -5<br>8     | 196              | ~5<br><5                                | 1.8                    | 0.5                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.58             | 59.000 (monto                                                                                                  | 0.032                                     | 0.15                                    | 10                                       | 1.13             | 621                                   | 0.06              | 3         | <5        | 5         | <20                  | 0.00030635.00037863.00                                                                                         | <10                                     | 0.1                         | 68                | <20                                                                                                              |
| 68 85                  | 30          | 12                                          |                 | 8           | 141              | <5                                      | 0.8                    | 0.3                                      | an ang sa sa sa sa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.51             | 3                                                                                                              | en an | 0.1                                     | 9                                        | 0.92             | 510                                   | 0.04              | 4         | <5        | <5        | <20                  | 37                                                                                                             | <10                                     | 0.08                        | 70                | <20                                                                                                              |
| 68 247                 | 31          | 12                                          | verenexcer rest | 5           | 91               | <5                                      | 0.5                    | 0.3                                      | -27,222,532,542 es                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.05             | 3                                                                                                              | 0.023                                     | 0.08                                    | 11                                       | 0.85             | 512                                   | 0.03              | 4         | <5        | <5        | <20                  | 29                                                                                                             | <10                                     | 0.1                         | 86                | <20                                                                                                              |
| 68 248                 | 30          | 12                                          | 1.3             | 5           | 140              | <5                                      | 1.3                    | 0.3                                      | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.66             | 3                                                                                                              | 0.025                                     | 0.1                                     | 9                                        | 1.02             | 501                                   | 0.05              | 3         | <5        | <5        | <20                  | 45                                                                                                             | <10                                     | 2240/00/000 IONC 00/00/00/2 | 74                | <20                                                                                                              |
| 69.1 2859              | 19          | 10                                          | 1.9             | 12          | 649 *            | <5                                      | 1.6                    | 0.3                                      | 251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.32             | 4                                                                                                              | 0.01                                      | 0.21                                    | 18                                       | 1.01             | 1166                                  | 0.18              | <1        | <5        | 10        | <4 *                 |                                                                                                                | <10                                     | 0.22                        | 156               | 58 *                                                                                                             |
| 69.1 3804              | 18          | 14                                          | 1.7             | 12          | 878 *            | <5                                      | 0.7                    | 0.5                                      | adde and fall of a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.27             |                                                                                                                | 0.063                                     | 1977-0000 No 602603                     | 5                                        | 1.04             | 504                                   | 0.05              | 5         | <5        | 6         | <4 *                 |                                                                                                                | <10                                     | 0.15                        | 72                | <4                                                                                                               |
| 69.1 3805              | 26          | 20 20 Tang 1                                | 1.4             | <5          | 695 *            | <5                                      | 0.7                    | <0.2                                     | an e service - en                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.34             | <2                                                                                                             |                                           | 0.19                                    | 3                                        | 1.04             | 320                                   | 0.03              | 4         | <5        | <5        | <4 *                 |                                                                                                                | <10                                     | 0.12                        | 43                | <4 *                                                                                                             |
| 69.2 9691              | 15          | 16                                          | 2               | 9           | 1189 *           | -ca sta 2000000                         | 0.8                    | 0.9                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.37             | CCCC0000000000000000000000000000000000                                                                         | 0.081                                     | 0.73                                    | 5                                        | 1.56             | 718                                   | 0.06              | 8         | <5<br><5  | 6<br>11   | <4 *<br><20          | 15<br>14                                                                                                       | <10<br><10                              | 0.21                        | 98<br>111         | 6 *<br><20                                                                                                       |
| 69.3 145               | 26          |                                             | 1.8             | <5          | 56<br>6          | <5<br>25                                | 0.4                    | <0.2<br><0.2                             | an Coman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.78<br>0.3      | <2                                                                                                             | <0.01<br>0.013                            | 0.4                                     | 4<br><1                                  | 1.14             | 432<br>26                             | <0.01             | 6<br><1   | -5        | <5        | <20                  | der gestander i der                                                                                            | <10                                     |                             | 3                 | <20                                                                                                              |
| 69.3 146<br>69.3 361   | 9<br>13     | es, ensegeras                               | 0.1             | 102<br>30   | 821 *            | 011000000000000000000000000000000000000 | 0.01                   | -0.2<br>0.6                              | 5757- <b>669</b> -67776-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.98             | ~2<br>4                                                                                                        | 0.013                                     | 0.03                                    | 10                                       | 0.77             | 479                                   | 0.09              | 7         | <5        | 6         | <4 *                 | 000000000000000000000000000000000000000                                                                        | <10                                     | 0.13                        | 79                | 4 *                                                                                                              |
| 69.3 362               | 14          | 26                                          | 1.00111100047   | 115         | 676 *            |                                         | 0.6                    | 0.0                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.1              | A                                                                                                              | 0.071                                     | 0.21                                    | 8                                        | 0.49             | 3907                                  | 0.24              | 6         | <5        | <5        | <4 *                 |                                                                                                                | <10                                     | 0.08                        | 58                | <4 *                                                                                                             |
| 69.3 363               | 17          | 2000 and a start of the                     | 1.8             | 75          | 857 *            | <5                                      | 0.6                    | 0.7                                      | eessaanaangaase :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.29             | 5                                                                                                              | 0.063                                     | 0.32                                    | 9                                        | 0.77             | 986                                   | 0.09              | 7         | <5        | <5        | <4 *                 | 15                                                                                                             | 1.1.00.00%6                             | 0.12                        | 77                | 12 *                                                                                                             |
| 69.3 364               | 13          | and the second                              | 1.7             | 54          | 715 *            | <5                                      | and a second second    | 0.3                                      | 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.61             | 5                                                                                                              | 0.05                                      | 0.27                                    | 10                                       | 0.66             | 366                                   | 0.09              | 6         | <5        | <5        | <4 *                 | 18                                                                                                             | <10                                     | 0.1                         | 61                | 14 *                                                                                                             |
| 69.3 9688              | 8           | <1                                          | 0.3             | 80          | 676 *            | <5                                      | 0.1                    | 0.3                                      | 182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.34             | <2                                                                                                             | 0.014                                     | 0.13                                    | <1                                       | 0.02             | 33                                    | 0.05              | <1        | <5        | <5        | <4 *                 |                                                                                                                | <10                                     |                             | 2                 | <4 *                                                                                                             |
| 69.3 9689              | 9           | <1                                          | 0.2             | 84          | 243 *            | <5                                      | 0.03                   | 0.4                                      | 217                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.39             | <2                                                                                                             | <0.01                                     | 0.13                                    | <1                                       | <0.01            | 41                                    | 0.02              | <1        | <5        | <5        | 13 *                 | 3366665666688                                                                                                  | *******                                 | <0.01                       | 5                 | <4 *                                                                                                             |
| 69.3 9690              | 8           | and the second                              | 0.1             | 212         | 71 *             |                                         | 0.04                   | 0.7                                      | Westmann and Johnson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.29             | <2                                                                                                             | Same Contraction of the second            | 0.07                                    | n win date besluik                       | <0.01            | a de la companya de la companya de la | <0.01             | <1        | <5        | <5        | <4 *                 |                                                                                                                | aanaa daga x                            | <0.01                       | 6                 | <4 *                                                                                                             |
| 69.4 365               | 14          | 10                                          | 09072404        | 50          | 867 *            | <5                                      | 2000-000 <b>0</b> 000- | <0.2                                     | ool dha shekek daga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.63             | -8.849X830800                                                                                                  | 0.036                                     | 330103030-0003302628                    | 8                                        | 0.75             | 391                                   | 0.15              | 7         | <5        | <5        | <4 *                 | 8.8538332200200700000                                                                                          | <10                                     | secondered resignations     | 67                | 4 *<br>6 *                                                                                                       |
| 69.4 366               | 14          |                                             | 1.9             | 49          | 839 *            | <5<br>~5                                | 0.5                    | 0.3                                      | a a constante de la constante d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.76<br>3.22     | an an the second                                                                                               | 0.046                                     | 0.32                                    | 10<br>9                                  | 0.81<br>0.8      | 424<br>540                            | 0.13              | 7         | <5<br><5  | <5<br><5  | <4 *<br><4 *         | In the Address and                                                                                             | <10<br><10                              | 0.13                        | 71<br>76          | 0<br>9 *                                                                                                         |
| 69.4 367<br>69.4 2848  | 17<br>19    | 0.000100-00000-000                          | 2.1<br>2.3      | 82<br>70    | 831 *<br>716 *   | <5<br><5                                | 0.6                    | 0.3<br>0.5                               | 8000 Sec. 1988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.92             | en de la compañía de | 0.055                                     | 0.32                                    | 9<br>14                                  | 0.82             | 533                                   | 0.03              | 7         | ~5<br><5  | <5        | <4 *                 |                                                                                                                | <10                                     | 0.14                        | 65                | 8*                                                                                                               |
| 69.4 2848<br>69.4 2852 | 33          | 19                                          | 2.3             | 41          | 1082 *           | <5                                      | 1                      | 0.9                                      | 83.11.00.00.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.97             | control control of the                                                                                         | 0.031                                     | 0.23                                    | 8                                        | 1.04             | 450                                   | 0.06              | 5         | <5        | 6         | <4 *                 | and a second | <10                                     | usuusi saasi                | 91                | <4 *                                                                                                             |
| 69.4 3750              | 6           | seccessere and the                          | 0.5             | 169         | 67 *             | <5                                      | 0.4                    | <0.2                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.58             | <2                                                                                                             | 1.1994.000000000000000000000000000000000  | 0.28                                    | 2                                        | 0.05             | 45                                    | 0.01              | <1        | 35        | <5        | <4 *                 | 000000000000000000000000000000000000000                                                                        |                                         | <0.01                       | 28                | <4 *                                                                                                             |
| 69.4 3802              | 37          |                                             | 2.3             | 54          | 749 *            |                                         | 0.9                    | 0.7                                      | 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.65             | <2                                                                                                             | 0.042                                     | 0.19                                    | 6                                        | 1.46             | 619                                   | 0.06              | 6         | <5        | 8         | 465 *                | 37                                                                                                             | <10                                     | 0.18                        | 105               | <4 *                                                                                                             |
| 69.5 2849              | 5           | <1                                          | 0               | 220         | <10 *            | <5                                      | 0.01                   | <0.2                                     | 294                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.35             | <2                                                                                                             | <0.01                                     | 0.02                                    | <1                                       | <0.01            | 30                                    | 0.01              | <1        | <5        | <5        | <4 *                 | <1                                                                                                             | <10                                     | <0.01                       | <1                | <4 *                                                                                                             |
| 69.5 2850              | 14          | <1                                          | 0.4             | 2741        | 25 *             | <5                                      | 0.2                    | <0.2                                     | 297                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.84             | <2                                                                                                             | <0.01                                     | 0.2                                     | 2                                        | 0.03             | 37                                    | 0.01              | <1        | 8         | <5        | <4 *                 | 29.29.2.29.20.02.02.02.02.02.02.02.02.02.02.02.02.                                                             | 000000000000000000000000000000000000000 | <0.01                       | 10                | <4 *                                                                                                             |
| 69.5 2851              | 34          | 22                                          | 2.3             | 89          | 914 *            | <5                                      | 1.2                    | 1                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.73             |                                                                                                                | 0.069                                     | 0.53                                    | 13                                       | 1.12             | 845                                   | 0.06              | 7         | <5        | <5        | <4 *                 | at in grane more the                                                                                           | <10                                     | aadamada mara               | 84                | 5 *                                                                                                              |
| 69.5 3800              | 9           | .2.0603016001015                            | 0.5             | 349         | 207 *            |                                         | 0.2                    | S. S | 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.04             | <2                                                                                                             | <0.01                                     | 0.26                                    | 5                                        | 0.04             |                                       | <0.01             | <1        | 12        | <5        | <4 *                 | 222223232323232323232                                                                                          | 0.000000000000                          | < 0.01                      | 7                 | 6*                                                                                                               |
| 69.5 3801              | 11          |                                             | 0.2             | 298         | 131 *            |                                         | 0.01                   | <0.2                                     | Contraction of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.57             |                                                                                                                | 0.016                                     | 0.14                                    | an a | <0.01            |                                       | < 0.01            | <1<br>c   | 18<br>25  | <5        | <4 *                 | an a                                                                       |                                         | < 0.01                      | 5                 | 13 *<br><4 *                                                                                                     |
| 69.6 2853              | 37          | a al series de                              | 1.9             | 35          | 1186 *           | <5                                      | 1.1                    | 1                                        | 1999 - CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4.14             | 2000/00/00/00/00/00                                                                                            | 0.021                                     | 0.21                                    | 7                                        | 1.05<br>0.87     | 384<br>469                            | 0.07              | 5<br>4    | <5<br><5  | 6<br><5   | <4 *<br><4 *         | orielonie staat nijstelijke                                                                                    | <10<br><10                              | 0.13                        | 88<br>74          | <4 ·<br>10 *                                                                                                     |
| 69.6 3803<br>69.7 368  | 26<br>5     | server warmen a                             | 1.6<br>0.4      | 91<br><5    | 924 *<br>306 *   | <5<br><5                                | 0.6                    | 0.6<br><0,2                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.52<br>0.25     | <2<br><2                                                                                                       | 0.033                                     | 0.25                                    | 7<br><1                                  | 0.87             | 469                                   | 0.04              | 4<br><1   | <5        | <5        | <4 *                 |                                                                                                                |                                         | <0.01                       | /4<br><1          | <4 *                                                                                                             |
| 69.7 368<br>69.8 369   | 5<br>32     | eren an | 0.4<br>1.8      | <5<br>37    | 306 *<br>1465 *  | >0                                      | sace scorece           | 50.2<br>1.2                              | ecologi (ecorrect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.1              | ~~<br>5                                                                                                        | 0.05                                      | 0.15                                    | 13                                       | 1.07             | 589                                   | 0.09              | 8         | <5        | -5<br>6   | <4 *                 |                                                                                                                | <10                                     | 0.11                        | 0.07.02.0261-010  | <4 *                                                                                                             |
| 69.8 370               | 27          |                                             |                 | 49          | 185              | anna an anna                            | 0.7                    | 1.2                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.25             |                                                                                                                | 0.073                                     |                                         | 56                                       | 0.79             | 676                                   | 0.32              | 6         | <5        | <5        | <20                  | an a                                                                       | ann a bhair                             | 0.09                        |                   | <20                                                                                                              |
|                        |             | 012192873                                   |                 |             |                  |                                         |                        | n den en inter de la com                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ः व रत्य वि      | - en 20 <b>7</b> 5                                                                                             |                                           |                                         | กระหางมีเสียตู้เป                        |                  | andarraafi ingiliii                   | 2007-0700000      |           |           |           |                      |                                                                                                                |                                         | eed so in 10110             | ere a de Chi      |                                                                                                                  |

| Map Sar  | mple                                       | Location         | Sample | Sample                   | Sample                     | Sample Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | *                                        | Ag      | * Cu *    | Pb *    | Zn '   | Mo    |
|----------|--------------------------------------------|------------------|--------|--------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|-----------|---------|--------|-------|
| No. No.  |                                            |                  |        | Size (ft)                | Site                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |         | opt ppm % |         |        | 6 ppm |
| 69.8 969 | 92                                         | Andrew Creek     | SS     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 52                                       | 0.5     | 63        | 107     | 258    | 3     |
| 69.8 969 | 80000000000                                | Andrew Creek     | SS     |                          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 81                                       | 0.5     | 58        | 51      | 183    | 3     |
| 69.9 371 |                                            | Andrew Creek     | SS     |                          | union anna chuireannach a' |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20                                       | 0.4     | 73        | 17      | 157    | 4     |
| 70.1 124 | 3000000000000.00                           | North Silver     | S      | 0.45                     | OC                         | Qz-sulf vn w/ sl, gn, cp, py, po 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5 - 10 - VOC 99 - 49 - 79 - 69 - 69 - 69 | 19.32 * | 580       | 22.50 * | 3.6 *  | 2     |
| 70.1 125 |                                            | North Silver     | С      | 3.3                      | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                        | 46.6    | 130       | 2451    | 5245   | 10    |
| 70.1 126 | 0000-00000                                 | North Silver     | С      | 0.2                      | OC                         | Qz-sulf vn w/ gn, sl, po 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0800039980 <b>00080</b> 0000             | 16.28 * | 493       | 28.34 * | 2.4 *  | 14    |
| 70.1 958 |                                            | North Silver     | С      | 0.8                      | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                                        | 7.45 *  | 217       | 4.69 *  | 2.9 *  | 4     |
| 70.1 958 | (a)(2, 20, 200)                            | North Silver     | С      | 0.25                     | 00                         | Msv gn in fault 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          | 84.30 * | 1104      | 48.61 * | 2.9 *  | 1     |
| 70.1 958 |                                            | North Silver     | S      |                          | TP                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                                       | 34.9    | 62        | 5090    | 8490   | 1     |
| 70.2 122 | ana ang kang pa                            | North Silver     | C      | 1.4                      | TP                         | Qz-sulf zone w/ gossan, si, gn 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45 a                                     | 79.46 * | 295       | 11.00 * | 9.5 *  | <1    |
| 70.2 123 |                                            | North Silver     | G      |                          | MD                         | Msv gn & si 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          | 33.03 * | 283       | 9.71 *  | 12.4 * | 1     |
| 70.2 431 |                                            | North Silver     | С      | 2.75                     | TP                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                        | 31.3    | 97        | 1795    | 2734   | 4     |
| 70.2 432 |                                            | North Silver     | С      | 0.5                      | TP                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26                                       | 180.1   | 92        | 9048    | 1.7 *  | 2     |
| 70.2 433 | Sec. 8                                     | North Silver     | С      | 1.5                      | TP                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 57                                       | 9.6     | 47        | 434     | 145    | 12    |
| 70.2 434 |                                            | North Silver     | С      | 0.5                      | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :5                                       | 3       | 76        | 42      | 87     | 5     |
| 70.2 435 | 62                                         | North Silver     | С      | 4                        | TP                         | Sector Se        | 9                                        | 19.7    | 88        | 1678    | 1268   | 3     |
| 70.2 869 |                                            | North Silver     | С      | 0.5                      | TP                         | Shear zone w/ gn & sl in gneiss 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          | 735.8   | 232       | 33.47 * | 9.8 *  | 2     |
| 70.2 958 | c) e 1965, les 1966, les                   | North Silver     | Rep    | 4.9                      | TP                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13                                       | 4.84 *  | 379       | 6843    | 1.8 *  | 2     |
| 70.2 958 |                                            | North Silver     | S      | A. 49.00                 | TP                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                        | 15.54 * | 904       | 11.36 * | 8.1 *  | <1    |
| 70.3 436 | 20230-202020                               | North Silver     | G      |                          | TP                         | 1. The second s<br>Second second se<br>Second second s<br>Second second s<br>Second second se | :5                                       | 0.4     | 135       | 10      | 88     | 4     |
| 70.4 120 |                                            | North Silver     | Rep    | 1                        | OC                         | Sil band w/ sulf 434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          | 11.5    | 31        | 778     | 391    | 3     |
| 70.4 121 |                                            | North Silver     | С      | 0.4                      | 00                         | Sil shear zone w/ gn 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 80000.000.00000.000                      | 17.62 * | 205       | 39.75 * | 3764   | <1    |
| 70.4 437 |                                            | North Silver     | С      | 2.4                      | UW                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15                                       | 5.6     | 29        | 379     | 492    | 11    |
| 70.4 438 |                                            | North Silver     | G      | 0.3                      | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 93.4    | 954       | 5098    | 1.9 *  | <1    |
| 70.4 439 |                                            | North Silver     | G      | 0.2                      | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          | 212.9   | 1052      | 2.45 *  | 11.0 * | 2     |
| 70.4 264 | ~~~~~~~~~                                  | North Silver     | G      |                          | MD                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                        | 10.4    | 520       | 1200    | 1900   | 74    |
| 70.4 869 |                                            | North Silver     | С      | 3.6                      | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13                                       | 11.9    | 25        | 954     | 399    | 4     |
| 70.4 869 |                                            | North Silver     | S      |                          | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :5                                       | 1.4     | 9         | 87      | 54     | 2     |
| 70.5 430 | (1) (2) (3)                                | North Silver     | G      | 0.3                      | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                                        | 120.4   | 145       | 2158    | 377    | - <1  |
| 70.5 264 | 0101001-010000                             | North Silver     | S      | 0.2                      | 00                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15                                       | 7.5     | 46        | 3050    | 280    | 10    |
| 70.5 869 |                                            | North Silver     | Rep    | 3                        | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 42.1    | 130       | 3475    | 1640   | 2     |
| 71.1 419 | 000000000000000000000000000000000000000    | Northeast Cliffs | G      | 1                        | 00                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 1.3     | 838       | 36      | 9559   | <1    |
| 71.1 427 |                                            | Northeast Cliffs | G      | 2                        | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :5                                       | 1.1     | 112       | 126     | 1663   | <1    |
| 71.1 283 | 910100010-0-0K                             | Northeast Cliffs | G      |                          | OC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9                                        | 0.5     | 219       | 36      | 1569   | 4     |
| 71.2 418 |                                            | Northeast Cliffs | G      | 0.5                      | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 8.3     | 980       | 436     | 3959   | 15    |
| 72 144   | 58-19-19-19-19-19-19-19-19-19-19-19-19-19- | AMAX Molybdenum  | G      | 0.2                      | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7                                        | 0.3     | 20        | 23      | 97     | 5392  |
| 73.1 101 |                                            | Groundhog Basin  | G      | Netra gent in the second | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8                                        | 12.4    | 146       | 8425    | 5849   | 2     |
| 73.1 102 | 00.0000 C.A.                               | Groundhog Basin  | Ġ      |                          | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 6.3     | 188       | 4726    | 1.3 *  | 2     |
| 73.1 103 |                                            | Groundhog Basin  | G      |                          | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 8.5     | 199       | 5240    | 7231   | 2     |
| 73.2 265 | Sec. 898.5                                 | Groundhog Basin  | RC     |                          | MD                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                        | 6.4 *   | 1205      | 5.91 *  | 4.1 *  | 3     |
| 73.2 261 |                                            | Groundhog Basin  | S      | in nagan ana watawa      | MD                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                        | 4.85 *  | 1300      | 5.06 *  | 9.1 *  | <10   |
| 73.3 261 | MANGAR (* 1833)                            | Groundhog Basin  | S      |                          | UW                         | Sil volc w/ po, py, si                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 000000000000000000000000000000000000000  | 1.66 *  | 3400      | 2900    | 8.6 *  | <10   |
| 73.3 263 | 38                                         | Groundhog Basin  | G      |                          | RC                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                        | 82      | 900       | 1.83 *  | 20.8 * | 2     |
| 73.4 98  |                                            | Groundhog Basin  | G      | A 4                      | UW                         | Msv, fg po, gn, cp, sl 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | 141.0   | 1772      | 10.57 * | 7.7 *  | <1    |
| 73.4 99  |                                            | Groundhog Basin  | G      | 0.4                      | MD                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                        | 7       | 872       | 152     | 16.0 * | <1    |
| 73.4 100 | 6705227270                                 | Groundhog Basin  | C      | 1.5                      | MD                         | Dissem sulf in metamorphosed country rock 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | 1.8     | 115       | 59      | 4500   | 2     |
| 73.4 263 | 5                                          | Groundhog Basin  | Rep    |                          | OC                         | Msv sulf zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                                        | 35.7    | 1185      | 368     | 12.3 * | <1    |

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| Мар          | Samp       | ie N                                    | li (            | Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Al                                                                                                              | As                 | В                                                 | a '             | Bi                                               | Са                          | Cd                                      | Cr                                       | Fe                                      | Ga                                      | Hg                                                 | K                                        | La                       | Mg                                       | Mn                                             | Na                                                                                                             | Nb                                                                                                             | Sb                                       | Sc                                      | Sn *                                                                                                           | Sr                                                                                                              | Te                                                            | ri V                                    | W *                                                                                                              | Pt Pd                                                                                                           |
|--------------|------------|-----------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-----------------|--------------------------------------------------|-----------------------------|-----------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------|------------------------------------------|--------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| No.          | No.        | рр                                      | m p             | pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                                                                                               | ppm                | рр                                                |                 | rf ppm                                           | %                           | ppm                                     | ppm                                      | %                                       | ppm                                     | ррт                                                | %                                        | ppm                      | %                                        | ppm                                            | %                                                                                                              | ppm                                                                                                            | ppm                                      | ppm                                     | ppm xr                                                                                                         | f ppm                                                                                                           | ppm                                                           | % ppn                                   | n ppm xrf                                                                                                        | ppb ppb                                                                                                         |
| 69.8         | 9692       |                                         | 31              | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.8                                                                                                             | 129                |                                                   | 912 *           | <5                                               | 0.7                         | 0.9                                     | 46                                       | 4.08                                    | 5                                       | 0.054                                              | 0.44                                     | 17                       | 0.89                                     | 841                                            | 0.16                                                                                                           | 7                                                                                                              | <5                                       | <5                                      | <4 *                                                                                                           | 24                                                                                                              | <10 (                                                         | .11 80                                  | ) 14 *                                                                                                           |                                                                                                                 |
| 69.8         | 9693       |                                         | 28              | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.9                                                                                                             | 106                | acresses and                                      | 952 *           | <5                                               | 0.6                         | 0.4                                     | 42                                       |                                         | *****                                   | 0.043                                              | 0.32                                     | 11                       | 609-80380000000-68                       | 585                                            | 0.07                                                                                                           | 7                                                                                                              | <5                                       | 5                                       | <4 *                                                                                                           | 20                                                                                                              | 2004042-0000000000000000000000000000000                       | .12 87                                  | / 8*                                                                                                             |                                                                                                                 |
| 69.9         | 371        | and a subserved                         | C1240 - 21 - 21 | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul> <li>A subscription</li> </ul>                                                                              | 26                 | n in an comu                                      | 334 *           |                                                  | 1.2                         | 1.2                                     | 200-201-201-201-201-201-201-             | 4.27                                    |                                         | 0.027                                              | 0.21                                     | an an in the second      | 1.03                                     | 322                                            | 0.1                                                                                                            | 8                                                                                                              | <sup>-</sup> <5                          | <5                                      | <4 *                                                                                                           | National Address of the Address of t |                                                               | 0.12 103                                | and the second second second                                                                                     |                                                                                                                 |
| 70.1         | 124        |                                         | 14              | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0,00013.00100013                                                                                                | 120                |                                                   | <10 *           | <5                                               | 1.8                         | 291.7                                   | 72                                       | 17.75                                   |                                         | 1.136                                              | 0.03                                     | 1                        | 0.7                                      | 4351                                           | <0.01                                                                                                          | <1                                                                                                             | 176                                      | <5                                      | 482 *                                                                                                          | 50                                                                                                              | <10 <0                                                        | 0.01 2 <sup>.</sup>                     | 1 <4 *                                                                                                           |                                                                                                                 |
| 70.1         | 125        |                                         | 50              | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.2                                                                                                             | 228                |                                                   | 433 *           | <5                                               | 0.3                         | 53.5                                    | 147                                      | 5.63                                    | <2                                      | 0.055                                              | 0.2                                      | 7                        | 0.39                                     | 6521                                           | <0.01                                                                                                          | 3                                                                                                              | 9                                        | 14                                      | 9*                                                                                                             | 9                                                                                                               | <10 <(                                                        | .01 65                                  | 5 <4 *                                                                                                           |                                                                                                                 |
| 70.1         | 126        |                                         | 21              | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.7                                                                                                             | 1372               |                                                   | <10 *           | <5                                               | 0.8                         | 228                                     | 100                                      | 8.14                                    | <2                                      | 0.14                                               | 0.04                                     | 3                        | 0,44                                     | 5142                                           | <0.01                                                                                                          | 8                                                                                                              | 309                                      | <5                                      | 162 *                                                                                                          | 47                                                                                                              | <10 <(                                                        | .01 17                                  | <4 *                                                                                                             |                                                                                                                 |
| 70.1         | 9586       |                                         | and a second    | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.8                                                                                                             | 37                 |                                                   | 280 *           | 8                                                | 9                           | 221.4                                   | 54                                       | 7.05                                    | <2                                      | 0.076                                              | 0.14                                     | 7                        | 0.62                                     | 14801                                          | <0.01                                                                                                          | 3                                                                                                              | 61                                       | <5                                      | 70 *                                                                                                           | 243                                                                                                             | <10 <(                                                        | 0.01 17                                 | 7 <4 *                                                                                                           |                                                                                                                 |
| 70.1         | 9587       |                                         | 9               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.3                                                                                                             | 38                 |                                                   | <10 *           | 6                                                | 3                           | 284.8                                   | 31                                       | 8.92                                    | <2                                      | 0.124                                              | 0.03                                     | 1                        | 0.3                                      | 6290                                           | <0.01                                                                                                          | <1                                                                                                             | 887                                      | <5                                      | 264 *                                                                                                          | 63                                                                                                              | 12 <(                                                         | .01 {                                   | 5 <4 *                                                                                                           |                                                                                                                 |
| 70.1         | 9588       |                                         | 5               | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.4                                                                                                             | 67                 |                                                   | <10 *           | 9                                                | 3.2                         | 53 <sup>.</sup>                         | 36                                       | 27.46                                   | <2                                      | 0.021                                              | 0.03                                     | <1                       | 0.77                                     | >20000                                         | <0.01                                                                                                          | <1                                                                                                             | <5                                       | <5                                      | 117 *                                                                                                          | 57                                                                                                              | <10 <0                                                        | .01 <1                                  | 1 <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 122        |                                         | 3               | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                               | 80                 |                                                   | <10 *           | <5                                               | 0.02                        | 623.9                                   | 60                                       | 13.6                                    | <2                                      | 0.303                                              | 80.0                                     | 1                        | 0.44                                     | 5087                                           | <0.01                                                                                                          | <1                                                                                                             | 167                                      | <5                                      | 370 *                                                                                                          | 5                                                                                                               | 18 <(                                                         | .01 14                                  | <b>  &lt;4 *</b>                                                                                                 |                                                                                                                 |
| 70.2         | 123        |                                         | 4               | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.2                                                                                                             | 47                 |                                                   | <10 *           | <5                                               | 0.2                         | 903.1                                   | 87                                       | 8.07                                    | <2                                      | 0.282                                              | 0.05                                     | <1                       | 0.58                                     | 5839                                           | <0.01                                                                                                          | <1                                                                                                             | 105                                      | <5                                      | 165 *                                                                                                          | 2                                                                                                               | 24 <(                                                         | .01 17                                  | 7 <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 431        |                                         | 8               | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.8                                                                                                             | 96                 | 1                                                 | 161 *           | <5                                               | 0.03                        | · 21                                    | 97                                       | 8.2                                     | 3                                       | 0.052                                              | 0.18                                     | 5                        | 0.69                                     | 7598                                           | <0.01                                                                                                          | <1                                                                                                             | <5                                       | <5                                      | 34 *                                                                                                           | 4                                                                                                               | <10 <(                                                        | .01 27                                  | ′ <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 432        |                                         | 6               | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2                                                                                                               | 6                  |                                                   | 77 *            | <5                                               | 0.03                        | 197.7                                   | 108                                      | >10                                     | 4                                       | 0.117                                              | 0.17                                     | 5                        | 0.58                                     | 6802                                           | 0.01                                                                                                           | <1                                                                                                             | 13                                       | <5                                      | 38 *                                                                                                           | 3                                                                                                               | 19 <0                                                         | .01 39                                  | ) <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 433        |                                         | 17              | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.7                                                                                                             | 105                |                                                   | 295 *           | <5                                               | 0.1                         | 1.1                                     | 152                                      | 4.05                                    | 4                                       | 0.011                                              | 0.29                                     | 5                        | 0.1                                      | 548                                            | <0.01                                                                                                          | <1                                                                                                             | 6                                        | <5                                      | 72 *                                                                                                           | 5                                                                                                               | <10 <(                                                        | .01 28                                  | 3 <4 *                                                                                                           | 1000                                                                                                            |
| 70.2         | 434        |                                         | 9               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.6                                                                                                             | <5                 | 1                                                 | 001 *           | <5                                               | 0.3                         | 0.5                                     | 162                                      | 6.24                                    | 4                                       | <0.01                                              | 0.38                                     | 4                        | 0.56                                     | 732                                            | 0.05                                                                                                           | <1                                                                                                             | <5                                       | 6                                       | <4 *                                                                                                           | 10                                                                                                              | <10 (                                                         | .08 108                                 | 3 <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 435        |                                         | 7               | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.1                                                                                                             | 10                 |                                                   | 558 *           | <5                                               | 0.1                         | 9.5                                     | 67                                       | 7                                       | 4                                       | 0.016                                              | 0.27                                     | 7                        | 1.04                                     | 5925                                           | <0.01                                                                                                          | <1                                                                                                             | <5                                       | 6                                       | 50 *                                                                                                           | 4                                                                                                               | <10 <0                                                        | .01 52                                  | 2 6*                                                                                                             |                                                                                                                 |
| 70.2         | 8693       |                                         | 4               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.7                                                                                                             | 57                 |                                                   | <10 *           | <5 :                                             | 0.01                        | 838.1                                   | 35                                       | 9.38                                    | <2                                      | 0.188                                              | <0.01                                    | 3                        | 0.41                                     | 6308                                           | <0.01                                                                                                          | <1                                                                                                             | 558                                      | <5                                      | 279 *                                                                                                          | 4                                                                                                               | 52 <0                                                         | .01 17                                  | 7 <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 9584       |                                         | 8               | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.4                                                                                                             | 63                 |                                                   | 61 *            | <5                                               | 0.03                        | 124.8                                   | 131                                      | 13.25                                   | <2                                      | 0.077                                              | 0.12                                     | 2                        | 0.62                                     | 3506                                           | <0.01                                                                                                          | <1                                                                                                             | 11                                       | <5                                      | 47 *                                                                                                           | 1                                                                                                               | <10 <0                                                        | ,01 12                                  | ? <4 *                                                                                                           |                                                                                                                 |
| 70.2         | 9585       |                                         | 6               | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.7                                                                                                             | 123                |                                                   | <10 *           | 7                                                | 0.1                         | 499.7                                   | 52                                       | 21.67                                   | <2                                      | 0.168                                              | 0.02                                     | <1                       | 0.37                                     | 2688                                           | <0.01                                                                                                          | <1                                                                                                             | 84                                       | <5                                      | 73 *                                                                                                           | 1                                                                                                               | <10 <0                                                        | .01 1                                   | <4 *                                                                                                             |                                                                                                                 |
| 70.3         | 436        |                                         | 66              | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.8                                                                                                             | <5                 | 8                                                 | 475 *           | <5                                               | 0.8                         | 0.6                                     | 124                                      | 6.09                                    | 5                                       | <0.01                                              | 0.47                                     | 3                        | 1.88                                     | 298                                            | 0.17                                                                                                           | <1                                                                                                             | <5                                       | 35                                      | 5 *                                                                                                            |                                                                                                                 |                                                               | .19 297                                 | <4 *                                                                                                             | 9269, 870 Q.C                                                                                                   |
| 70.4         | 120        | anatologi (n. 19                        | 4               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.6                                                                                                             | 770                |                                                   | 206 *           | <5                                               | 0.9                         | 6.7                                     | 127                                      | 2.68                                    | 14                                      | <0.01                                              | 0.7                                      | 5                        | 0.2                                      | 225                                            | <0.01                                                                                                          | 2                                                                                                              | 8                                        | <5                                      | 32 *                                                                                                           | 6                                                                                                               | <10 <0                                                        | ana ana ang ang ang ang ang ang ang ang | 6 16 *                                                                                                           | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |
| 70.4         | 121        |                                         | 1               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.2                                                                                                             | 1534               | 00.00%                                            | <10 *           | <5                                               | 0.01                        | 32.3                                    | 63                                       | 3.36                                    | <2                                      | 1.159                                              | 0.08                                     | 1                        | 0.02                                     | <ul> <li>construction construction</li> </ul>  | <0.01                                                                                                          | <1                                                                                                             | 548                                      | <5                                      | 1497 *                                                                                                         | energia de la companya de la company | <10 <0                                                        | ere de la telefona e secon              | and a contract of the second second                                                                              | 66666666                                                                                                        |
| 70.4         | 437        | <pre><pre></pre></pre>                  | 15              | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.1                                                                                                             | 123                | adamaticites:                                     | 281 *           | <5                                               | 0.8                         | 2.5                                     | 145                                      | 1.72                                    |                                         | 0.013                                              | 0.44                                     | 2                        | 0.14                                     |                                                | <0.01                                                                                                          | <1                                                                                                             | <5                                       | <5                                      | 17 *                                                                                                           | • Montes 111121 (1990)                                                                                          | <10 <0                                                        |                                         | ) <4 *                                                                                                           |                                                                                                                 |
| 70.4         | 438        |                                         | 12              | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.4                                                                                                             | 65                 | 1350                                              | 44 *            | <5                                               | 1.4                         | 98.7                                    | 27                                       | >10                                     | <2                                      | 0.07                                               | 0.03                                     | 2                        | 0.23                                     | 2221                                           | <0.01                                                                                                          | <1                                                                                                             | <5                                       | <5                                      | 47 *                                                                                                           | 13                                                                                                              | and the second second                                         | and the second second second            | a area area in a a a                                                                                             |                                                                                                                 |
| 70.4         | 439        | 000000000000000000000000000000000000000 | 14              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                                                                                             | 375                |                                                   | <10 *           | <5                                               | 0.3                         | 594.2                                   | 52                                       | >10                                     | <2                                      | 0.208                                              | 0.06                                     | 2                        | 0.22                                     | 5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1       | <0.01                                                                                                          | <1                                                                                                             | 37                                       | <5                                      | 178 *                                                                                                          | 8                                                                                                               | 40 <0                                                         | CLARO 200 70000                         | NA 6461 A 1262 (ST 38656)                                                                                        | CONTRACTOR OF THE                                                                                               |
| 70.4         | 2640       |                                         | 11              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5                                                                                                             | 94                 |                                                   | 30              | <2                                               | 0.2                         | 10.5                                    |                                          | 1.99                                    | <10                                     | 0.03                                               | 0.0000000000000000000000000000000000000  | <10                      | 0.16                                     | 260                                            | consector terretation ta                                                                                       | ·                                                                                                              | <2                                       | 2                                       |                                                                                                                | 4                                                                                                               | CRI MOMME INCODED DED S                                       | .01 48                                  | bagang ng hagi "gan na na asasana w                                                                              |                                                                                                                 |
| 70.4         | 8694       | erese erese                             | 10              | 000.0000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.4                                                                                                             | 100                |                                                   | 401 *           | 0,000,000,000,000,000,000                        | 0.7                         |                                         | 150                                      | 2.25                                    | 35650101020000                          | <0.01                                              | 0.54                                     | 3                        | 0.33                                     |                                                | <0.01                                                                                                          | <1                                                                                                             | <5                                       | <5                                      | 10 *                                                                                                           |                                                                                                                 | <10 <0                                                        | 0000000000000000000000000000            | 50000000000000000000000000000000000000                                                                           |                                                                                                                 |
| 70.4         | 8695       |                                         |                 | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 | 5                  |                                                   | <10 *           |                                                  | 10                          | 0.3                                     | an a | 0.31                                    |                                         | <0.01                                              | 0.32                                     | <1                       | 0.08                                     | 97                                             |                                                                                                                | <1                                                                                                             | <5                                       | <5                                      | 6*                                                                                                             | ann an an a' an a'                                                          | <10 <0                                                        |                                         |                                                                                                                  | 2000-010-010-0                                                                                                  |
| 70.5         | 430        | P000234004.1                            | 5               | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 007-207-0094                                                                                                    | 38                 |                                                   | 21 *            | ana amangana                                     | 0.02                        | xxxxxxxxxxxxxxx                         | 180                                      | 3.37                                    | 0101101710000000                        | 0.106                                              | 0.04                                     | 1                        | 0.32                                     | 1922-1929 (1922-1927)<br>1927-1929 (1922-1927) | < 0.01                                                                                                         | <1                                                                                                             | 16                                       | <5                                      | 39 *                                                                                                           |                                                                                                                 | <10 <0                                                        | 085.9886 p. see oo see oo               |                                                                                                                  | - <b>X - X - X - X - X - X - X - X - X - X</b>                                                                  |
| 70.5         | 2641       | 002-34                                  | 7               | an sina,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | and near as                                                                                                     | 10000              |                                                   | 70              |                                                  | 0.01                        |                                         | 292                                      | 4.22                                    |                                         | 0.01                                               | ana ara satritata                        | <10                      | 0.03                                     | 50                                             | - <b></b>                                                                                                      |                                                                                                                | 16                                       | 1                                       |                                                                                                                | 3                                                                                                               | en secondaria da como como como como como como como com       | .01 34                                  |                                                                                                                  | 101010000                                                                                                       |
| 70.5         | 8696       | 8R.(999851/75                           | 8               | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                                                                                                               | 6                  | 1                                                 | 077 *           |                                                  | 0.2                         | 22.4                                    | 61                                       | >10                                     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  | 0.012                                              | 0.19                                     |                          | 1.44                                     | 3451                                           | 0.02                                                                                                           | <1                                                                                                             | -5                                       | 10                                      | 117 *                                                                                                          | 4                                                                                                               | 00000000000000000000000000000000000000                        | .01 121                                 | 000000000000000000000000000000000000000                                                                          |                                                                                                                 |
| 71.1         | 419        |                                         | 12              | an inter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 | <5                 | an a          | 239 *           | and a second second                              | 1.3                         | 51.9                                    | 48                                       | 9.5                                     |                                         | 0.015                                              | 0.14                                     | <1                       | 1.04                                     | 587                                            |                                                                                                                | 9                                                                                                              | <5                                       | <5                                      | 209 *                                                                                                          | adalah sa                                                                   | ter takan bergan panan sa | .09 107                                 |                                                                                                                  |                                                                                                                 |
| 71.1         | 427        | 80000000000                             | 8               | ggactores no.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.2                                                                                                             | 5                  | ana 1965, 500, 500 (C                             | 927 *           | 100000000000000000000000000000000000000          | 0.5                         | 4                                       | -10<br>50                                | 4.07                                    |                                         | 0.011                                              | 0.43                                     | <1                       | 0.63                                     | 705                                            | 0.11                                                                                                           | 5                                                                                                              | <5                                       | <5                                      | 119 *                                                                                                          | 1999-1977 - 2020-2020-2020-2                                                                                    |                                                               | .05 107                                 | ar en el anticipa de la constant de   | - 2 XU 20 U 20 U                                                                                                |
| 71.1         | 2834       |                                         |                 | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 | 6                  | na na sana sa | 674 *           | de administrative servers                        | 2.2                         | 9                                       | 71                                       | 5.08                                    | and many                                | <0.01                                              | 0.86                                     | anta ni ana              | 1.17                                     | 832                                            | 0.51                                                                                                           | 10                                                                                                             | <5<br><5                                 | 8                                       | 58 *                                                                                                           | alan sana a                                                                                                     | energia de la companya de la                                  | .12 109                                 | Contractor Report of Academy                                                                                     | NE DOMONIUM                                                                                                     |
| 71.2         | 418        | er merere ser room                      | 38              | 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | one results                                                                                                     | 18                 | 000000000000000000000000000000000000000           | 253 *           | Selected concernance.                            | 1.9                         | 000000000000000000000000000000000000000 | 182                                      | 000000000000000000000000000000000000000 | 40.0010002002                           | 0.019                                              | 1.38                                     | <1                       | 1.37                                     | 2858                                           | 0.01                                                                                                           | 6                                                                                                              | -5<br><5                                 |                                         | 1941 *                                                                                                         | an an an an barbar                                                                                              |                                                               | .04 80                                  | where we are an experience                                                                                       |                                                                                                                 |
| 72           | 144        | · · · · · · · · · · · · · · · · · · ·   | 12              | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3                                                                                                             | <5                 | Na m                                              | 49 *            |                                                  | 0.8                         |                                         | 168                                      | 2.04                                    | and and a second                        | <0.013                                             | 0.4                                      | 59                       | 0.25                                     | 175                                            | 0.01                                                                                                           | 4                                                                                                              | <5<br><5                                 | ہ<br><5                                 | 4 *                                                                                                            |                                                                                                                 |                                                               | .04 80                                  | and the second | 20202020288                                                                                                     |
| 73.1         | 101        | 0403280100                              | x-0-0-0-0       | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1000-0010000                                                                                                    | 45                 |                                                   | 43<br>68 *      |                                                  | 0.03                        | 53.4                                    | 94                                       | 1.66                                    |                                         | <0.01                                              | 0.4                                      |                          | <0.23                                    | 57                                             | 0.01                                                                                                           | 4<br>29                                                                                                        | <5<br><5                                 | ~J<br><5                                | 311 *                                                                                                          | economic constant                                                                                               | <10 <0                                                        | 2002000-010-0316-3                      |                                                                                                                  | 408 UNI 49808                                                                                                   |
| 73.1         | 101        | 946655                                  |                 | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | والمحافظة والمحافظة المحافظة ا | 33                 | S. San M                                          | 77 *            | accounter en | e meren andere de           | 109.7                                   | 55                                       | 4                                       |                                         | <0.01                                              | 0.38                                     | 1 Maria Cardonala        | <0.01                                    | 83                                             | 0.01                                                                                                           | 30                                                                                                             | <5                                       | <5                                      | 142 *                                                                                                          | Contractor and the second s | <10 <0                                                        |                                         | an a statement a second                                                                                          | NE COLUMN                                                                                                       |
| 73.1         | 102        | Cash), Mili                             | 2               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.0                                                                                                             |                    | e verión                                          | 75 *            | 10.00 million an 10.00 million an                | 0.01                        | 60.9                                    | Construction                             | 4<br>2.74                               | 000000000000000000000000000000000000000 | <0.01                                              | 0.36                                     | 95,938 <b>,</b> 85,85,85 | <0.01                                    |                                                | 0.01                                                                                                           | - 30<br>50                                                                                                     | <5<br><5                                 | <5<br><5                                | 142                                                                                                            | 900 M - 24 000 C - 25 00                                                                                        | conserva des Precisions                                       | 1000000-0000-0000-0                     | an consecutive representation                                                                                    |                                                                                                                 |
| 73.2         | 265        |                                         |                 | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 | 428                |                                                   | 75<br>411 *     |                                                  | 2003-00-00000               | viseroocoocoste v                       |                                          |                                         |                                         | ana na na mara ana ana ana ana ana ana ana ana ana | unu na manana                            | uninconcontex.           | an a | en normana articina                            | and a second | and a second | AN A | a , a . a                               | and a second | and the second second                                                                                           | <10 <0                                                        | al ser an an ar                         |                                                                                                                  | 000000000000                                                                                                    |
| 73.2         | 265        | 000000000000000000000000000000000000000 | 2002020202000   | <code:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc< td=""><td>1.Z<br/>1.7</td><td>420<br/>310</td><td>5,5050-50006.00</td><td>411<br/>&lt;10</td><td>concentration of the second</td><td></td><td>391.7<br/>&gt;100.0</td><td></td><td>19.05</td><td>2002000133200000</td><td>0.107</td><td>0.32</td><td>2</td><td>0.58</td><td>521</td><td>0.02</td><td>&lt;1</td><td>104</td><td>x or el consector de</td><td>1300 *</td><td>2.10/06/06/05/05/000</td><td>***********************</td><td>.05 59</td><td>. 1966 Helene (2017) - Shekara</td><td></td></code:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc:cc<> | 1.Z<br>1.7                                                                                                      | 420<br>310         | 5,5050-50006.00                                   | 411<br><10      | concentration of the second                      |                             | 391.7<br>>100.0                         |                                          | 19.05                                   | 2002000133200000                        | 0.107                                              | 0.32                                     | 2                        | 0.58                                     | 521                                            | 0.02                                                                                                           | <1                                                                                                             | 104                                      | x or el consector de                    | 1300 *                                                                                                         | 2.10/06/06/05/05/000                                                                                            | ***********************                                       | .05 59                                  | . 1966 Helene (2017) - Shekara                                                                                   |                                                                                                                 |
| 73.2         | 2610       |                                         |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.7                                                                                                             | 12                 | e na na serve serve serve                         | <10<br><10      | 129                                              | con come                    |                                         | - managaran bash                         |                                         | <10                                     | 0.05                                               |                                          | <10                      | 0.89                                     | 955                                            | 0.03                                                                                                           | 10.000                                                                                                         | 56                                       | 7                                       | 840079 (J.).                                                                                                   | 5                                                                                                               | n an ann an ann an an an                                      | .14 86                                  |                                                                                                                  | 10 <b>1012773070</b> 0000                                                                                       |
| 73.3         | 2639       | over 193                                | 13<br>7         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.7                                                                                                             | 202                | 0.010                                             | 812-012-010-010 | 138                                              | 2005) (SK,20                | >100.0                                  | 0.000.000.000.000                        | 15.00                                   | 10000000000000                          | 0.24                                               | 0.14                                     |                          | 0.4                                      | 315                                            | <.01                                                                                                           | 10. Yeki                                                                                                       | 6                                        | 2                                       |                                                                                                                | 7                                                                                                               | 01020401000000030000000                                       | .06 22                                  | en en anter en de la servicio de la   |                                                                                                                 |
| 73.3         | 2639       |                                         | 7               | 1. 110.2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.5                                                                                                             | 2508               |                                                   | 10<br>90 *      | ingenere enderstrefne inge                       |                             | >100.0                                  | antonia antona                           | 15.00                                   | 10                                      | 0.34                                               | an a | <10                      | 0.17                                     | 495                                            | <.01                                                                                                           |                                                                                                                | 4                                        | 1                                       | 1004 -                                                                                                         | <1                                                                                                              |                                                               | .01 9                                   | e service and the second                                                                                         |                                                                                                                 |
| 73.4         | C.C        |                                         | an 100 a        | 8300600.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.5<br>1.9                                                                                                      | er sører op bredet | wa (11)                                           |                 | <5                                               | <pre>c.copcost.ter.or</pre> | 504.7                                   | 000000000000000                          | 30.95                                   |                                         | 0.229                                              | 0.26                                     | 1                        | 0.13                                     | 0.00000.00000.00000000                         | <0.01                                                                                                          | <1                                                                                                             | 55                                       | 0.0000000000000000000000000000000000000 | 1604 *                                                                                                         |                                                                                                                 | <10 <0                                                        |                                         |                                                                                                                  | 839493                                                                                                          |
|              | 99         | 619.25                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 | 1487               |                                                   | 26 *            | <5<br>24                                         | 0.2                         | 1040                                    | access increment                         | 24.38                                   | 4                                       | 0.06                                               | 0.17                                     | 1                        | 1                                        | anna an air a' cai                             | < 0.01                                                                                                         | <1                                                                                                             | <5                                       |                                         | 6115 *                                                                                                         | 2                                                                                                               | a nan'n Mara ana an                                           | .02 34                                  | 21201010103-0-0-0000                                                                                             | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |
| 73.4<br>73.4 | 100<br>263 | S. (.) 802                              | 7               | 867 - <b>67</b> - 67 - 67 - 67 - 67 - 67 - 67 - 67 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.3                                                                                                             | 9                  | 0.000 x00.000                                     | 109 *           | - 31                                             | 1.8                         | 27.6                                    | 43                                       | 4.4                                     | rroomeo.co                              | 0.155                                              | 0.64                                     | 3                        | 1.01                                     | 813                                            | 0.15                                                                                                           | 5                                                                                                              | <5                                       | 6                                       | 290 *                                                                                                          | 000000000000000000000000000000000000000                                                                         | *******                                                       | .18 82                                  | N 2615 A 207 \$57 PC 158 \$69                                                                                    |                                                                                                                 |
| 13.4         | 203        |                                         | '               | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0                                                                                                             | 3930               |                                                   | <10 *           | 53                                               | 0.1                         | 823.6                                   | 23                                       | 27.56                                   | <2                                      | 0.036                                              | 0.17                                     | <1                       | 0.09                                     | 259                                            | <0.01                                                                                                          | <1                                                                                                             | <5                                       | <5                                      | 65 *                                                                                                           | 1                                                                                                               | 20 <0                                                         | .01 5                                   | 223                                                                                                              |                                                                                                                 |

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| Мар                        |      | Location          |      | Sample                                    |       | Sample Description                                       |           | * Ag *  | Cu *  | Pb     | Zn     | * Mo                                    |
|----------------------------|------|-------------------|------|-------------------------------------------|-------|----------------------------------------------------------|-----------|---------|-------|--------|--------|-----------------------------------------|
| No.                        | No.  |                   | Туре | Size (ft)                                 | Site  |                                                          | Au ppb o  |         |       |        |        |                                         |
| 73.4                       | 264  | Groundhog Basin   | Rep  | 2.2                                       | UW    | Msv sulf zone                                            | 14        | 1.9 *   | 3100  | 1926   | 8.9    |                                         |
| 73.4                       | 2612 | Groundhog Basin   | Rep  | Kanana sa manangan                        | OC    | Msv sl, po, py                                           | 5         | 24.3    | 1500  | 400    | 5.1 '  |                                         |
| 74                         | 428  | South Silver      | G    | 0.4                                       | 00    | Qz vn w/ sulf                                            | 14        | 0.6     | 29    | 28     | 41     | 12                                      |
| 74                         | 8690 | South Silver      | Rep  | 10                                        | OC    | Qz vn in gneiss                                          | <5        | 1       | 14    | 11     | 25     | 13                                      |
| 74                         | 8691 | South Silver      | S    |                                           | OC    | Fractured, fest, gossany gneiss w/ trace gn              | <5        | 63.9    | 98    | 1417   | 378    | 14                                      |
| 74                         | 8692 | South Silver      | G    | ana ana ao manana                         | RC    | Fest gneiss w/ qz br                                     | 6         | 3.3     | 26    | 405    | 205    | 7                                       |
| 75.1                       | 127  | Copper Zone       | G    |                                           | FL    | Silica-rich fg volc w/ blebs of po, cp, sl               | 34        | 1.52 *  | 1896  | 2047   | 405    | 2                                       |
| 75.1                       | 128  | Copper Zone       | G    |                                           | RC    | Msv sulf w/ po, sl, cp                                   | 299       | 42.1    | 2277  | 451    | * 3.1  | 4 ۲                                     |
| 75.2                       | 130  | Copper Zone       | С    | 1                                         | OC    | Sil, fest gneiss w/ cp in fractures                      | 15        | 8.17 *  | 1.7 * | 753    | 7077   | 5                                       |
| 75.2                       | 131  | Copper Zone       | S    | 0.4                                       | RC    | Msv cp in sil gneiss                                     | 2812      | 16.07 * | 8.1 * | 234    | 6980   | 3                                       |
| 75.2                       | 132  | Copper Zone       | S    | 0.05                                      | RC    | Band of sl, gn                                           | 111       | 30.8    | 3204  | 164    | 2.5 *  | • 4                                     |
| 75.2                       | 133  | Copper Zone       | С    | 0.5                                       | OC    | Gossan w/ cp ·                                           | 55        | 19.65 * | 2.2 * | 1.71 * | 2.7 *  | ' <1                                    |
| 75.2                       | 9592 | Copper Zone       | S    |                                           | TP    | Sil contact w/ cp, po, sl                                | 179       | 12.1    | 1088  | 59     | 282    | 2                                       |
| 75.2                       | 9593 | Copper Zone       | С    | 0.45                                      | OC    | Sil contact w/ cp, py                                    | 10        | 19.2    | 658   | 1190   | 1.3 *  |                                         |
| 75.2                       | 9594 | Copper Zone       | C    | 0.7                                       | OC    | Sil contact w/ py, cp                                    | 17        | 14.4    | 1947  | 151    | 7808   | 8                                       |
| 75.2                       | 9595 | Copper Zone       | С    | 0.5                                       | OC    | Sil contact w/ cp, py                                    | 30        | 2.09 *  | 7415  | 41     | 906    | 10                                      |
| 75.2                       | 9596 | Copper Zone       | С    | 0.2                                       | 00    | Lens of cp & sl in gneiss                                | 4580      | 16.91 * | 7.4 * | 225    | 5613   | 8                                       |
| 7 <b>6</b> .1              | 2642 | North Marsha Peak | Rep  | 0.4                                       | TP    | Sulf along a shear in trench                             | 15        | 8.8 *   | 1.7 * | 600    | 14.5 * | ' 10                                    |
| 76.1                       | 2643 | North Marsha Peak | Rep  | 0.5                                       | 00    | Vuggy, fest, sil band in sc & gneiss                     | <5        | 12      | 275   | 870    | 540    | 6                                       |
| 76.2                       | 440  | North Marsha Peak | С    | 0.4                                       | OC    | Fest, sil br w/ po, trace sl                             | <5        | 3.6     | 69    | 1144   | 2933   | 7                                       |
| 76.2                       | 8697 | North Marsha Peak | С    | 2.4                                       | TP    | Fracture zone w/ qz & sulf @ rhyolite-gneiss contact     | 18        | 53.9    | 3899  | 1084   | 1.3 *  | 27                                      |
| 76.2                       | 8698 | North Marsha Peak | S    |                                           | OC    | Vuggy fracture zone in gneiss                            | 5661      | 9.6     | 47    | 250    | 92     | 5                                       |
| 77.1                       | 441  | East Marsha Peak  | SC   | 7@0.125                                   | TP    | Fest, shear zone w/ po, sl, gn                           | <5        | 13.9    | 858   | 1.25 * | 1.9 *  | 5                                       |
| 77.1                       | 442  | East Marsha Peak  | SC   | 4.7@0.12                                  | 2: TP | Sil zone w/ sparse sulf                                  | <5        | 3       | 92    | 530    | 2443   | 6                                       |
| 77.1                       | 443  | East Marsha Peak  | SC   | 7.7@0.12                                  | 2:TP  | Fest shear zone w/ po, sl, gn                            | <5        | 11.3    | 846   | 1.06 * | 1.5 *  | 8                                       |
| 77.1                       | 444  | East Marsha Peak  | С    | 6.5                                       | TP    | Sheared, fest gneiss w/ po, sl, gn                       | 6         | 7.9     | 749   | 1520   | 1.2 *  | ʻ 4                                     |
| 77.1                       | 445  | East Marsha Peak  | С    | 2.2                                       | 00    | Qz-sulf band w/ sl, gn, cp                               | 19        | 35.3    | 2300  | 3921   | 27.1 * | 8                                       |
| 77.1                       | 446  | East Marsha Peak  | S    | 0.4                                       | TP    | Qz-sulf bands w/ po, sl, gn, cp                          | 35        | 51.6    | 3523  | 309    | 10.4 * | 79                                      |
| 77.1                       | 447  | East Marsha Peak  | S    | 0.2                                       | TP .  | Gray sulf w/ py                                          | 27        | 139.3   | 7169  | 306    | 14.2 * | 15                                      |
| 77.1                       | 448  | East Marsha Peak  | С    | 2                                         | TP    | Msv sl & gn in gneiss                                    | 36        | 49.6    | 785   | 3.47 * | 16.1 * | 2                                       |
| 77.1                       | 449  | East Marsha Peak  | С    | 3                                         | TP    | Sil, fest, hbl-rich rock w/ blebs of cp, sl, gn          | <5        | 27.4    | 1590  | 324    | 2.2 *  | 27                                      |
| 77.1                       | 450  | East Marsha Peak  | С    | 6                                         | TP    | Sil, fest, sheared gneiss w/ po, sl, gn, cp              | 18        | 11.1    | 831   | 119    | 2.4 *  | ' 5                                     |
| 77.1                       | 451  | East Marsha Peak  | С    | 3.5                                       | TP    | Fest, sil gneiss w/ po, sl, gn                           | <5        | 78.7    | 7260  | 2.42 * | 9.4 *  | 27                                      |
| 77.1                       | 452  | East Marsha Peak  | С    | 7                                         | OC    | Vuggy, fest qz vn w/ sulf                                | 272       | 13.7    | 353   | 490    | 1.5 *  | 30                                      |
| 77.1                       | 453  | East Marsha Peak  | SC   | 5@0.125                                   | RC    | Vuggy, fest qz vn w/ po, si, gn                          | 139       | 14.3    | 145   | 556    | 3750   | 27                                      |
| 77.1                       | 8699 | East Marsha Peak  | SC   | construction for the result of the second | OC .  | Fest gneiss w/ dissern & stringers of py, po, gn, sl, cp | 6         | 25.1    | 405   | 2.04 * | 1.7 *  | 000000000000000000000000000000000000000 |
| 77.1                       | 8700 | East Marsha Peak  | SC   | 10@0.5                                    |       | Fest, sil gneiss w/ gn, py, po, sl, cp                   | <5        | 8.5     | 370   | 2186   | 1.2 *  | The second state of the second          |
| 77.1                       | 8701 | East Marsha Peak  | SC   | una se companya esta concera recos        | 00    | Fest, sil gneiss w/ gn, py, po, sl, cp                   | 6         | 20.1    | 196   | 7849   | 1.3 *  | CONTRACTOR CONTRACTOR - 2014            |
| 77.1                       | 8702 | East Marsha Peak  | SC   | 10@0.5                                    | OC    | Fest, sil gneiss w/ gn, py, po, si, cp                   | <5        | 11.8    | 613   | 1351   | 2.6 *  | concerns a straight the                 |
| 77.1                       | 8703 | East Marsha Peak  | Rep  | 1.5                                       | OC    | Fest, sil, alt gneiss w/ py, cp                          | 9         | 33.7    | 3834  | 139    | 2.8 *  | 6496666666666666666666666666666         |
| 77.1                       | 8704 | East Marsha Peak  | C    | 0.5                                       | 0C    | Lens of dissem sl in gz fracture zone in sil gneiss      | <5        | 9.5     | 410   | 279    | 10.7 * |                                         |
| 77.1                       | 8705 | East Marsha Peak  | SC   | 10@0.5                                    | OC DO | Qz br vn w/ fluorite, py, sl, gn, cp in fractured gneiss | 19        | 38.2    | 2543  | 3792   | 9833   | 48                                      |
| 77.1                       | 8706 | East Marsha Peak  | ŠČ   | 11@0.5                                    | ÖČ    | Qz br vn w/ py, gn, sl in fractured gneiss               | 369       | 32      | 1653  | 6326   | 1.5 *  |                                         |
| 77.1                       | 8707 | East Marsha Peak  | C    | 2.1                                       | OC OC | Qz-filled fracture w/ sl stringers in gneiss             | <5        | 19.4    | 817   | 492    | 1.4 *  |                                         |
| 77.2                       | 134  | East Marsha Peak  | S    | 0.3                                       | õČ    | Irregular vuggy qz vn w/ hbi, si, gn                     | -0        | 6.8     | 518   | 3980   | 7157   | 200                                     |
| 77.2                       | 135  | East Marsha Peak  | G    | 0.3                                       | 00    | Vuggy, fest qz vn w/ sl                                  | ,<br>17   | 12.9    | 655   | 932    | 936    | 12                                      |
| 77.2                       | 9597 | East Marsha Peak  | Š    |                                           | ÖC OC | Gneiss w/ mo                                             | <5        | 1.2     | 89    | 15     | 72     | 12                                      |
| ed a <del>C</del> illionia |      |                   | 9    |                                           | ~~    | COURSE MINE                                              | <u>بر</u> | 1.4     | 03    | 10     | 4،     | u,                                      |

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| Мар          | Samp                                  | le Ni                                   | Со                                       | AI                  | As        | Ba *           | Bi                                      | Са                                               | Cd                                                                                                             | Cr                                              | Fe           | Ga                                      | Hg                 | к                       | La                                      | Mg               | Mn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Na                                       | Nb       | Sb       | Sc                                                                                                               | Sn *           | Sr                                                                                                             | Te Ti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | v                  | W *                  | Pt Pd                                                                                                           |
|--------------|---------------------------------------|-----------------------------------------|------------------------------------------|---------------------|-----------|----------------|-----------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------|-----------------------------------------|--------------------|-------------------------|-----------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------|----------|------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| No.          | No.                                   | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | ppm                                      | %                   | ppm       | ppm xrf        |                                         | %                                                |                                                                                                                | ppm                                             |              | ppm                                     | ppm                |                         | ppm                                     | %                | ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | %                                        | ppm      | ppm      |                                                                                                                  | ppm xrf        |                                                                                                                | - <b>1 - 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | h.d.,                | f ppb ppb                                                                                                       |
| 73.4         | 264                                   | 10                                      | 16                                       | 1.2                 | 150       | 499 *          | 133                                     | 0.3                                              | 714.7                                                                                                          | 000000000000000000000000000000000000000         | 21.84        | <2                                      | 0.082              | 0.31                    | 2                                       | 0.8              | 435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.02                                     | <1       | <5       |                                                                                                                  | 481 *          | 7                                                                                                              | en ander en ander en anvar de server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2020202020         | 144                  |                                                                                                                 |
| 73.4         | 2612                                  | 7                                       | 22                                       |                     | >10000    | 10             | 74                                      | water inge                                       | >100.0                                                                                                         |                                                 | 15.00        | <10                                     | 0.03               | 0.41                    | <10                                     | 0.19             | 165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.01                                     |          | 6        | 1                                                                                                                |                | 4                                                                                                              | 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11                 | 130                  |                                                                                                                 |
| 74           | 428                                   | 5                                       | 2                                        | 1.00000000000000000 | 70        | 229 *          | <5                                      | 0.1                                              |                                                                                                                | 143                                             | 2.19         | s and a star of a                       | <0.01              | 30.000 Control (CC 20   | 4                                       | 0.23             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.01                                    | 7        | <5       | separate and a second | <4 *           | 0.0000000000000000000000000000000000000                                                                        | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 63                 | <4 *                 |                                                                                                                 |
| 74<br>74     | 8690<br>8691                          | 12<br>15                                |                                          | 0.6                 | 89<br>292 | <20 *<br>418 * | <5<br>~5                                | 0.8                                              |                                                                                                                | 247<br>245                                      | 0.87<br>4.09 | an in air                               | <0.01<br><0.01     | 0.25                    | 2<br>6                                  | 0.06             | 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01                                     | <1<br><1 | <5<br><5 |                                                                                                                  | 1089<br>80 *   | and and have been as a second second                                                                           | <10 <0.01<br><10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25<br>54           | <20<br><4 *          |                                                                                                                 |
| 74           | 8692                                  | 13                                      | 2                                        | 15135557 A. 30      | 292<br>50 | 418<br>194 *   | 505000000000                            | 0.01                                             | 1.4                                                                                                            | 245                                             | 1.45         | ********                                | 0000000000000000   | 0.25                    | 2                                       | 0.43             | 0.0000.0000.0000.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.01                                    | <1       | ~0<br><5 | 00000000000                                                                                                      | 11 *           | 2010/07/2010/07                                                                                                | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 21                 | <4 *                 |                                                                                                                 |
| 75.1         | 127                                   | 7                                       |                                          |                     | 868       | 2320 *         |                                         | 0.04                                             |                                                                                                                | 153                                             | 1.43         | <2                                      | <0.01              | 0.33                    | 6                                       | 0.15             | 151                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01                                     | 5        | <5       |                                                                                                                  | 35 *           |                                                                                                                | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8                  | <4 *                 | 100000000000                                                                                                    |
| 75.1         | 128                                   | 124                                     |                                          | 2.2                 | 9         | 106 *          | 431                                     | 0.3                                              | 225.1                                                                                                          | 78                                              | 31.7         | 0.00.0000000000000000000000000000000000 | 0.025              | 0.46                    | 87                                      | 1.22             | 847                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01                                     | <1       | -0<br><5 |                                                                                                                  | 109 *          | second of Second                                                                                               | <10 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | inata atao 1960 a. | <4 *                 | 10010000000                                                                                                     |
| 75.2         | 130                                   | 64                                      | 73                                       |                     | 63        | 129 *          | 177                                     | 2                                                | dona a se a como                                                                                               | 169                                             | 9.88         |                                         | 0.018              | 0.3                     | 4                                       | 0.69             | 2743                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                                     | 7        | -<br><5  |                                                                                                                  | 520 *          |                                                                                                                | <10 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93                 | <4 *                 |                                                                                                                 |
| 75.2         | 131                                   | 122                                     | 310                                      | 0.7                 | 171       | 188 *          | 529                                     | 0.2                                              | 63.4                                                                                                           |                                                 | 17.45        | 0.0000000000000                         | 0.023              | 0.31                    | 2                                       | 0.09             | construction de la fact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.01                                    | 20       | <5       |                                                                                                                  | 321 *          | ***********                                                                                                    | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <1                 | <4 *                 |                                                                                                                 |
| 75.2         | 132                                   | 7                                       | 26                                       | 0.9 >               | >10000    | 246 *          | 86                                      | 0.01                                             | 348.6                                                                                                          | 121                                             | 3.19         | <2                                      | 0.021              | 0.39                    | 1                                       | 0.09             | 193                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <0.01                                    | 5        | <5       | <5                                                                                                               | 249 *          | <1                                                                                                             | 17 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                  | <4 *                 |                                                                                                                 |
| 75.2         | 133                                   | 63                                      | 495                                      | 5.1                 | 1195      | 202 *          | 534                                     | 0.7                                              | 120.3                                                                                                          | 31                                              | 21.95        | 12                                      | 0.049              | 0.47                    | 2                                       | 1.29             | 6367                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.01                                    | 5        | <5       | 7                                                                                                                | 1728 *         | 40                                                                                                             | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87                 | <4 *                 |                                                                                                                 |
| 75.2         | 9592                                  | 8                                       | 6                                        | 1                   | 9         | 926 *          | 22                                      | 0.1                                              | 1.9                                                                                                            | 119                                             | 1.57         | 3                                       | <0.01              | 0.4                     | 6                                       | 0.1              | 257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01                                     | 5        | <5       | <5                                                                                                               | 78 *           | 3                                                                                                              | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | З                  | 8 *                  |                                                                                                                 |
| 75.2         | 9593                                  | 20                                      | 9                                        | 2.6                 | <5        | <10 *          | 15                                      | 2.4                                              | 84.2                                                                                                           | 140                                             | 5.29         | 6                                       | 0.016              | 0.32                    | 5                                       | 0.93             | 1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.03                                     | 4        | <5       | <5                                                                                                               | 61 *           | 15                                                                                                             | <10 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47                 | <4 *                 |                                                                                                                 |
| 75.2         | 9594                                  | 65                                      | dia second                               | indh situn          | 7         | <10 *          | 0.00000000                              | 0.4                                              | 52.000.00000000000                                                                                             | 158                                             |              | cecconecoseces                          | 0.014              | 0.14                    | 8                                       | 1.07             | teran condense de la conde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <0.01                                    | 1        | <5       | 6                                                                                                                | 49 *           | en de la contraction | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 57                 | <4 *                 |                                                                                                                 |
| 75.2         | 9595                                  | 36                                      |                                          |                     | 57        | 277 *          | 14                                      | 0.4                                              | 7.8                                                                                                            | 287                                             | 4.7          | source and                              | <0.01              | 0.17                    | 10                                      | 0.37             | serbilika darim dari arta i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <0.01                                    | 5        | <5       | 6                                                                                                                | 57 *           | состронно колосо                                                                                               | <10 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 72                 | 12 *                 | n e o i o a for Robins Statis                                                                                   |
| 75.2         | 9596                                  | 18                                      | v 1995 - 2000 - 1                        | 3.8                 | 322       | 164 *          | 713                                     | 3.7                                              | 29.1                                                                                                           | an san an an a                                  | 24.52        |                                         | 0.038              | 1.15                    | 2                                       | 0.91             | 557                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | c 399-00000001- <b>0</b> 600             | 13       | <5       | 9                                                                                                                | 240 *          | 28                                                                                                             | cos of the state of the second state of the | 85                 | <4 *                 |                                                                                                                 |
| 76.1         | 2642                                  | 2                                       | 59                                       | 2.8                 | 34        | 30             | 410                                     |                                                  | >100.0                                                                                                         | 32                                              | 4.96         | 10                                      | 0.08               | 1.19                    | <10                                     | 0.32             | 990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.01                                     |          | 2        | 2                                                                                                                |                | 18                                                                                                             | <.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 43                 | <10                  |                                                                                                                 |
| 76.1         | 2643                                  | 4                                       | 1                                        | 1                   | 92        | 30             | e su an conserva                        | <.01                                             | 977 (PAP) (PAP)                                                                                                | 372                                             | 3.73         | <10                                     | 0.01               | 0.19                    | <10                                     | 0.15             | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.01                                     |          | <2       | 1                                                                                                                | 500 <b>*</b>   | 1                                                                                                              | <.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23                 | <10                  |                                                                                                                 |
| 76.2         | 440<br>8697                           | 19<br>6                                 | an a state cos                           | 4.5<br>0.9          | 27<br>33  | 141 *<br>150 * | <5<br>58                                | 0.6                                              | 20.6<br>104.2                                                                                                  | 93                                              | >10<br>2.73  | 11                                      | 0.01<br><0.01      | 0.19<br>0.38            | 6                                       | 1.38             | 5922                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | anna an | <1<br>   | <5<br>   | 5<br><5                                                                                                          | 529 *<br>433 * | 6<br>20                                                                                                        | 15 <0.01<br>15 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 96<br>24           | 9 *<br><4 *          | Vonesource                                                                                                      |
| 76.2<br>76.2 | 8698                                  | 3                                       | 0 10 <i>- 10 - 1</i> 0 - 10              | 0.9                 | 26        | <10 *          |                                         | 10.2                                             | 0.5                                                                                                            | 66                                              | 0.57         | <2                                      | <0.01              | 0.36                    | 4<br>3                                  | 0.15             | 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <0.01<br>0.4                             | <1<br><1 | <5<br><5 | <5                                                                                                               | 433            | 2020.009.200205                                                                                                | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24<br>6            | 9 *                  |                                                                                                                 |
| 77.1         | 441                                   | 22                                      |                                          |                     | 20        | 459 *          | ~5<br><5                                | and the second second                            | 159.4                                                                                                          | a an        | 9.42         | ~2<br>7                                 | مهالية ومنتها فليت | 0.23                    | 6                                       | 0.03             | 2064                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | and the second second                    | <1       | ~0<br><5 | aanaanaa                                                                                                         | 127 *          | 4                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 57                 | <del>ع</del><br><4 * |                                                                                                                 |
| 77.1         | 442                                   | 7                                       | 1                                        | 0.6                 | 19        | 49 *           | ~J<br><5                                | 0.2                                              | 6000.000777770                                                                                                 | 236                                             | 2.36         |                                         | <0.00              | 0.23                    | 2                                       | 0.16             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.01                                    | <1       | <5       | 20110-01-01-08-04                                                                                                | 11 *           | 2010/00/00/00/00/00/00                                                                                         | <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8                  | <4 *                 |                                                                                                                 |
| 77.1         | 443                                   | 22                                      | a seconda se                             | 2.3                 | 33        | 693 *          | <5                                      | a di kana sa | 126.7                                                                                                          | one si rivere                                   | 8.01         | งานการจะนี้และ                          | <0.01              | 0.37                    | 7                                       | 0.81             | 1838                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | sources and the second                   | <1       | <5       | an a                                                                         | 112 *          | 6                                                                                                              | 16 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 59                 | <4 *                 | 1000000000000                                                                                                   |
| 77.1         | 444                                   |                                         | 14                                       | 2.7                 | 31        | 1180 *         | <5                                      | 1                                                | 102.9                                                                                                          | 89                                              | 6.35         |                                         | <0.01              | 0.55                    | 10                                      | 0.83             | 1726                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                                     | <1       | <5       | 5                                                                                                                | 121 *          | 20                                                                                                             | 19 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 78                 | <4 *                 |                                                                                                                 |
| 77.1         | 445                                   | 4                                       |                                          | ·                   | 58        | <10 *          | <5                                      | 2.4                                              | >2000                                                                                                          | 82                                              | >10          | a aqaabaa                               | a som on a a       | 0.27                    | <1                                      | 0.25             | 2666                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | <1       | 47       | <5                                                                                                               | 168 *          | 12                                                                                                             | 73 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20                 | <4 *                 |                                                                                                                 |
| 77.1         | 446                                   | 11                                      | 37                                       | 0.7                 | 156       | <10 *          | 35                                      | 1.5                                              | 861.8                                                                                                          | 127                                             | >10          | 3                                       | 0.106              | 0.11                    | 1                                       | 0.24             | 1228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *******************                      | <1       | 28       | <5                                                                                                               | 829 *          | 30                                                                                                             | 45 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 29                 | <4 *                 |                                                                                                                 |
| 77.1         | 447                                   | 11                                      | 60                                       | 0.4                 | 77        | <10 *          | 59                                      | 0.9                                              | 1067                                                                                                           | 70                                              | >10          | З                                       | 0.172              | 0.19                    | 1                                       | 0.07             | 785                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <0.01                                    | <1       | 32       | <5                                                                                                               | 2483 *         | 4                                                                                                              | 45 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12                 | <4 *                 | 0.500 0.500                                                                                                     |
| 77.1         | 448                                   | 19                                      | 31                                       | 2.1                 | 20        | 99 *           | <5                                      | 0.3                                              | 1273                                                                                                           | 61                                              | >10          | 3                                       | 0.113              | 0.2                     | 5                                       | 0.91             | 3763                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.01                                    | <1       | 57       | <5                                                                                                               | 80 *           | 5                                                                                                              | 31 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47                 | <4 *                 |                                                                                                                 |
| 77.1         | 449                                   | 20                                      | 10                                       | 2.3                 | 11        | 86 *           | 24                                      | 3.5                                              | 191.8                                                                                                          | 133                                             | 9.16         | 8                                       | 0.014              | 0.39                    | 6                                       | 0.75             | 1715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                                     | <1       | <5       | <5                                                                                                               | 166 *          | 133                                                                                                            | 22 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 99                 | <4 *                 |                                                                                                                 |
| 77.1         | 450                                   | 26                                      |                                          | 2.5                 | 77        | 1158 *         | <5                                      | 0.4                                              | 225                                                                                                            | 141                                             | 7.62         | 9                                       | 0.013              | 0.27                    | 12                                      | 1.28             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.01                                    | <1       | 5        | 5                                                                                                                | 113 *          | 6                                                                                                              | 23 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 104                | <4 *                 |                                                                                                                 |
| 77.1         | 451                                   | 15                                      | 2.17.200.132.9                           | 2.6                 | 41        | 580 *          | 000000000000000000000000000000000000000 | xx80x500                                         | 776.2                                                                                                          | 61                                              | >10          | 1003606051505                           | 0.067              | 0.3                     |                                         | 0.86             | e dagi bile ta SR akt (Ridae)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.01                                     | <1       | 18       | 0.00000000,000                                                                                                   | 368 *          | 21                                                                                                             | 43 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 122                | <4 *                 |                                                                                                                 |
| 77.1         | 452                                   | 9                                       | and the desident of the                  | 1.4                 | 679       | 62 *           | 7                                       | 6                                                | 63.8                                                                                                           | 152                                             | 3.26         | tameter concernes                       |                    | . 0.23                  | 2                                       | 1.61             | 3656                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.05                                     | <1       | 9        | <5                                                                                                               | 35 *           | 35                                                                                                             | 17 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                 | <4 *                 |                                                                                                                 |
| 77.1         | 453                                   | 13                                      | en e | 1.9                 | 597       | 74 *           | 6                                       |                                                  | 36.2                                                                                                           |                                                 | 3.88         |                                         | ·                  | 0.57                    | 200000000000000000000000000000000000000 | 1.18             | 1541                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ecconcelor receipte                      | <1       | 11       | <5                                                                                                               | 26 *           | 25                                                                                                             | 11 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54                 | 10 *                 |                                                                                                                 |
| 77.1         | 8699                                  | 21                                      |                                          | 2.2                 | 18        | 420 *          | <5                                      | 1.6                                              | 124                                                                                                            | 137                                             | 9.9          |                                         | 0.018              | 0.41                    | 8                                       | 0.81             | 2529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | <1       | 15       | <5                                                                                                               | 83 *           | 29                                                                                                             | 19 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 66                 | <4 *                 |                                                                                                                 |
| 77;1<br>77,1 | 8700<br>8701                          | 29<br>29                                | 0.000 0.0000                             | 2.7                 | 7         | 672 *          | <5                                      | 2.5                                              | 88.1                                                                                                           | 77                                              | 8.79         | and control of the                      | <0.01              | 0.26                    | 9                                       | 1.37             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.01                                     | <1       | <5       | 6                                                                                                                | 159 *          | 62                                                                                                             | 15 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 99                 | <4 *                 |                                                                                                                 |
| 77.1         | 8701                                  | 29                                      |                                          | 1.6<br>2.6          | 28<br>20  | 412 *<br>738 * | 8<br>8                                  | 2.1<br>1                                         | 103.3<br>226.5                                                                                                 | 66<br>69                                        | 6.15<br>7.3  |                                         | < 0.01             | 0.26                    | 3<br>11                                 | 0.86<br>0.99     | 2291                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.01                                     | <1<br>~1 | 7        | <5<br>5                                                                                                          | 43 *           | 44                                                                                                             | 14 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 45                 | <4 *<br><4 *         |                                                                                                                 |
| 77.1         | 8702                                  | 21                                      | **********                               | 1.1                 | 20        | 736<br>57 *    |                                         | 0.2                                              | 268.8                                                                                                          | 227                                             | 7.3<br>8     | 2010/00/02/02/02                        | 0.016              | 0.37                    | 5                                       | 0.99             | 2222<br>1043                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          | <1<br><1 | <5<br>11 |                                                                                                                  | 113 *<br>119 * | 24<br>8                                                                                                        | 16 <0.01<br>24 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 82<br>43           | <4 *<br><4 *         |                                                                                                                 |
| 77.1         | 8703                                  | 13                                      |                                          | an ne ce            | 20<br>16  | <10 *          | -5<br>-5                                | 0.2                                              | 200.0<br>966.4                                                                                                 |                                                 | 7.33         |                                         | 0.041              | 0.04                    | 2                                       | 0.32             | 2826                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | a anno an tao ana                        | <1       | 29       | <5<br><5                                                                                                         | 55 *           | о<br>4                                                                                                         | 43 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 43<br>57           | <4 *                 | e en san de la composition de la compos |
| 77.1         | 8705                                  | 8                                       |                                          | 1.7                 | 82        | 139 *          |                                         | 3.3                                              | 91.9                                                                                                           | 210                                             | 4.17         | 2012001010400000                        | 0.024              | 0.52                    | 2                                       | 0.63             | 1374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                                     | <1       | 29<br><5 | <5                                                                                                               | 55<br>152 *    | 36                                                                                                             | 21 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60                 | <4<br><4 *           |                                                                                                                 |
| 77.1         | 8706                                  | 5                                       | 14                                       |                     | 1489      | 29 *           | 18                                      | 6.5                                              | 86.3                                                                                                           | a la la cara                                    | 3.02         | a second data di                        | <0.024             | 0.14                    | <1                                      | 1.27             | 3882                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                                     | <1       | 44       | <5                                                                                                               | 155 *          | 50                                                                                                             | 17 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 22                 | <4 *                 |                                                                                                                 |
| 77.1         | 8707                                  | -0<br>14                                | 10000102000000                           | 2.3                 | 12        | 609 *          | 19                                      | 2.4                                              | en de la della de la sectera de la se                                                                          | 190                                             | 3.85         |                                         | 0.018              | 1.01                    | 5                                       | 0.62             | 1959                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                                     | <1       | <5       | <5                                                                                                               | 72 *           | 45                                                                                                             | 14 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 74                 | <4 *                 |                                                                                                                 |
| 77.2         | 134                                   | 13                                      | 10                                       | 2.1                 | 22        | 147 *          | <5                                      | 1.8                                              | 54.5                                                                                                           | Actor/2010/00/00/00/00/00/00/00/00/00/00/00/00/ | 4.07         | ana ang ang ang ang ang ang ang ang ang | <0.01              | 0.62                    | 2                                       | 0.71             | 1649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.01                                     | 6        | <5       | 6                                                                                                                | 14 *           | waa in Tara                                                                                                    | <10 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 79                 | <4 *                 |                                                                                                                 |
| 77.2         | 135                                   | 8                                       | 3                                        | 1                   | 38        | 32 *           | <5                                      | 0.1                                              | 5.2                                                                                                            | 250                                             | 2.82         |                                         | 0.024              | 0.13                    | 4                                       | 0.21             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | < 0.01                                   | 2        | <5       | <5                                                                                                               | 47 *           | 10 (2000) 2000 (2000) 2000 (200                                                                                | <10 < 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                 | 12 *                 |                                                                                                                 |
| 77.2         | 9597                                  | 13                                      | 2                                        | 0.7                 | 13        | 1283 *         | 6                                       | 0.1                                              | <0.2                                                                                                           |                                                 | 2.1          |                                         | <0.01              | 0.27                    | 6                                       | 0.26             | 125                                                                                                                                                                                                                                                                                                                                                                                                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<4 *                 |                                                                                                                 |
|              | • • • • • • • • • • • • • • • • • • • |                                         |                                          | oyan ina 1980)      |           |                | 00-007-011-0208-009-0                   | c + 000 C 500 - 65 55                            | na na serie de la constante de | 1999 - CANESSE                                  |              | o                                       |                    | europaeistekiste (2019) |                                         | ouedd 2010 Media | 1111 1 x x 200 x 2 |                                          |          |          | es bitterind be                                                                                                  |                | 2000-000-000-000-000-000-000-000-000-00                                                                        | and the second field                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22 × 8,878 88,9783 | 100-00-000000000     |                                                                                                                 |

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|--------------|--------------|---------------------|--------|-------------------|----------|-------------------------------------------------------|----------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|
| No.          | No.          |                     | Туре   | Size (ft)         | Site     |                                                       | \u ppb   |                                              | opt ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | ppm    |
| 78.1         | 116          | Nelson Glacier      | Rep    | 0.07              | 00       | Qz-sulf vn w/ sl, gn, cp, py                          | 15       |                                              | 624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.73 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.6 *     | 10     |
| 78.1         | 117          | Nelson Glacier      | Rep    | 0.4               | FL       | Msv sulf boulder w/ sl, gn, cp, po                    | 29       |                                              | 2358                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19996-9993 (19966) (1997) (1997) (1997) (1997) (1997)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.9 *     | 3      |
| 78.1         | 118          | Nelson Glacier      | Rep    | 1                 | FL       | Sil sulf zone w/ sl, cp, gn, po & qz bands            | 106      | and a second second second second            | CONTRACTOR AND A CONTRACTOR OF A DESCRIPTION OF A DESCRIPANTE A DESCRIPANTE A DESCRIPANTE A DESCRIPTION OF A | 4692                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15.5 *    | 14     |
| 78.1         | 119          | Nelson Glacier      | Rep    | 0.5               | FL       | Msv cg sl w/ cp & po                                  | 24       |                                              | 0.0000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | x000.000.0000000.000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30.0 *    | 3      |
| 78.1         | 9580         | Nelson Glacier      | Rep    | 0.8               | FL       | Sil gneissic metaseds w/ py stringers                 | 902      |                                              | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 473       | 4      |
| 78.1         | 9581         | Nelson Glacier      | Rep    | 0.5               | FL       | Sil gneissic metaseds w/ sl, cp, gn                   | 93       |                                              | 3451                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12.0 *    | 49     |
| 78.1         | 9582         | Nelson Glacier      | Rep    | 0.2               | FL       | Msv sl w/ minor cp                                    | 17       | Contraction of Contraction Market            | ter and the second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13.8 *    | 14     |
| 78.1         | 9583         | Nelson Glacier      | Rep    | 0.4               | FL       | Sil gneissic metaseds w/ blebs of msv sl, gn, cp      | <5       | 02000 00000 00000000 <del>0</del> 7000000    | 1393                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | c > c > c > c > c > c > c > c > c > c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19.9 *    | 3      |
| 78.2         | 129          | Nelson Glacier      | Rep    | 0.65              | FL       | Msv gn, sl, py, po w/ qz & calc                       | 71       | 5.69                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10.4 *    | 43     |
| 78.2         | 9589         | Nelson Glacier      | Rep    | 0.5               | OC       | Msv py & gray sulf in qz br                           | 359      |                                              | 325                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -C00000 (20000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2491      | <1     |
| 78.2         | 9590         | Nelson Glacier      | Rep    | 0.5               | FL       | Qz br w/ gn, py, sl                                   | 35       |                                              | CONTRACTOR CONTRACTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.63 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.9 *     | 17     |
| 79.1         | 422          | Huff                | С      | 3                 | 00       | Sulf in shear zone w/ gossan & qz vns                 | 86       |                                              | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 00/00/000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 136       | <1     |
| 79.1         | 423          | Huff                | C      | 5                 | OC       | Gossan in shear zone                                  | 296      | 2.2                                          | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 194       | 3      |
| 79.1         | 424          | Huff                | C      | 3                 | 00       | Sheared, fest gneiss w/ sulf                          | 137      | 0.6                                          | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2009-00-0000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 99        | 2      |
| 79.1         | 425          | Huff                | C      | 1.8               | 00       | Sheared, vuggy qz vns                                 | 198      | 2.1                                          | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 51        | 4      |
| 79.1         | 426          | Huff                | C      | 1.8               | 00       | Shear zone w/ vuggy qz bands & sulf                   | 81       | 2.1                                          | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CONTRACTOR CONTRACTOR<br>CONTRACTOR CONTRACTOR CONTRACTOR<br>CONTRACTOR CONTRACTOR CON<br>CONTRACTOR CONTRACTOR CONT | 87        | 3      |
| 79.1<br>79.1 | 2836         | Huff                | G<br>C | 0.7               | FL       | Qz vn                                                 | 28<br>37 | 1.1<br>1.2                                   | 17<br>32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10<br>51  | 4      |
| 79.1<br>79.1 | 2837<br>2838 | Huff<br>Huff        | S      | 0.7               | OC<br>OC | Qz vn w/ sulf<br>Msv py                               |          | 2.9                                          | 32<br>22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0000 C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 51<br>25  | 3<br>2 |
| 79.1         | 2636         | Huff                | C      | 0.4               | 00       |                                                       | 2166     | 2.9<br>228.4                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25<br>595 | 2      |
| 79.2<br>79.2 | 96<br>97     | Huff                | G      | 0.4               |          | Fest qz vn w/ gn, po, & py<br>Qz-calc br zone w/ sulf | 2100     |                                              | 309<br>49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>0.24</b><br>960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 945       | 2<br>5 |
| 79.2<br>79.2 | 97<br>261    | Huff                | C .    | 5.2               | 00       | Qz vn                                                 | 39<br><5 |                                              | 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 945       | <1     |
| 79.2<br>79.2 | 262          | Huff                | Rep    | 5.z<br>2.5        | OC<br>OC | Qz vn                                                 | ~u<br><5 |                                              | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 19<br>18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 23        | <1     |
| 79.2         | 420          | Huff                | S      | 0.3               | RC       | Vuggy qz-py band w/ sl & gn                           | 157      | 162.6                                        | 475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6528                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.1 *     | 6      |
| 79.3         | 92           | Huff                | G      | 0.6               | RC       | Gneiss w/ po                                          | <5       | 0.9                                          | 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 274                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 629       | 9      |
| 79.3         | 93           | Huff                |        | 0.0               | OC       | Granular py lens in marble & calcsilicates            | 212      |                                              | 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 84        | 3      |
| 79.4         | 90           | Huff                | G      | 5                 | OC OC    | Msv band of gn, sl, po in marble                      | <5       |                                              | 2688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.28 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7.3 *     | 2      |
| 79.4         | 91           | Huff                | _      | 1.4               | ÖC .     | Msv band of gn, sl, po in mable                       | <5       | · -                                          | 6412                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11.18 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.1 *     | <1     |
| 79.4         | 254          | Huff                | Rep    | 2.7               | OC OC    | Msv sulf layer in is and marble                       | <5       | Store conception and according to a value of | 12.27 Sec. 12.20 Sec. 0.00 (0.00 p. 20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15.71 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9.1 *     | <1     |
| 79.4         | 255          | Huff                | Rep    | 7                 | OC .     | Msv sulf in marble                                    | <5       |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20.08 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.8 *     | <1     |
| 79.4         | 454          | Huff                | C      | 0.3               | oc       | Fest, sheared is w/ po,sl, gn                         | 81       | 251.3                                        | 3994                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4.87 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.1 *     | 4      |
| 79.5         | 256          | Huff                | Rep    | 4                 | 00       | Marble w/ dissem sulf                                 | <5       |                                              | 152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 691                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 486       | 8      |
| 79.5         | 259          | Huff                | RC     | 1                 | OC       | Alt intermediate int w/ fg dissem po                  | <5       | <0.1                                         | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 34        | <1     |
| 79.6         | 257          | Huff                |        | 1.7               | OC       | Irregular oz vn in heavily fest marble                | <5       | 0.2                                          | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60        | <1     |
| 79.6         | 258          | Huff                | Rep    | 2                 | OC       | Fest marble w/ sulf                                   | <5       | 0.6                                          | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 354                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 261       | 6      |
| 79.7         | 8708         | Huff                | S      |                   | 00       | Lens of fest, sil gneiss w/ po in marble              | <5       | 2.1                                          | 164                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 105       | 5      |
| 80           | 143          | West Nelson Glacier | С      | 0.4               | OC       | Qz br zone w/ gneiss, sulf                            | <5       | 1                                            | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 621       | 10     |
| 80           | 9602         | West Nelson Glacier | C      | 0.5               | OC       | Vuggy qz vn w/ py, gn, cp, sl .                       | 9        | 11.8                                         | 442                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2057      | 12     |
| 80           | 9603         | West Nelson Glacier | С      | 0.2               | OC       | Msv sulf in vuggy qz shear zone                       | 94       | 4.39 '                                       | the second state of the second states of the second | 2.70 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9577      | 30     |
| 81           | 2608         | Glacier Basin       | S      | 1                 | 00       | Lenses of sl, gn, py in sil volc                      | <5       | 3.97                                         | (c) (100) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.64 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7.9 *     | 10     |
| 81           | 2609         | Glacier Basin       | Rep    | 2                 | oc       | Gn in síl volc                                        | <5       | 7.98 '                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 33.40 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.3 *     | 10     |
| 82.1         | 376          | Lake                | S      | 0.5               | TP       | Meta rock w/ sl & gn                                  | <5       | 161                                          | 271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8.54 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.1 *     | 3      |
| 82.1         | 377          | Lake                | C      | 0.5               | MD       | Br qz w/ blebs of sl, gn, cp                          | 14       | 195                                          | 204 <del>9</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7.89 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.7 *     | 3      |
| 82.1         | 378          | Lake                | СН     | 0.25              | TP       | Msv gn, sl, cp                                        | 18       | 411                                          | 3266                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25.10 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.6 *     | 3      |
| 82.2         | 379          | Lake                | S      | er de la companya | MD       | Qz br w/ py, sl, gn                                   | <5       | 37.6                                         | 909                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.65 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.1 *     | 5      |
| 82.2         | 380          | Lake                | G      |                   | MD       | Qz br w/ gn, sl                                       | 7        | 00000000000000000000000000000000000000       | 342                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13.21 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16.4 *    | 3      |
| 82.2         | 2613         | Lake                | S      |                   | MD       | Sil meta host w/ gn, sl, cp, py                       | <5       | 4.73                                         | 1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.50 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.6 *     | 10     |

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| Ga                                       | Hg                          | ĸ                                       | La                                            | Mg   | Mn                                                                                                              | Na                                                      | Nb        | Sb       | Sc       | Sn '          | Sr                                        | Te                                                                                                             | Ti V                                      | W *                                                                                                                                                                                                                                                                                                                                                                                                                   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| No. No.                | ppm p                                                                                                           |                  | ррт                     | ppm xr         |                                                             | % ppm                                   | ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | %              | ppm                                      | ppm                         |                                         | ppm                                           | %    | ppm                                                                                                             | %                                                       | ррт       |          | ppm      | ppm x         | rf ppm                                    |                                                                                                                |                                           | n ppm xrf                                                                                                                                                                                                                                                                                                                                                                                                             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| 78.1 116               | 22                                                                                                              | 44 1.2           | 10                      | 389 *          |                                                             | 0.5 270                                 | 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9.99           | <2'                                      | 1.252                       | an a tan in in ina                      | 3                                             | 0.6  | 2092                                                                                                            | 0.02                                                    | 2         | 23       | <5       | 21 *          | . 11                                      | ina a la arconor                                                                                               | 0.05 6                                    |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 78.1 117               | 7                                                                                                               | 49 0.4           | 79                      | <10 *          | ana ang ata sa n                                            | 0.7 374.4                               | 3323 <b>,</b> 355,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | and the second | a manananan                              | 0.282                       |                                         | 2                                             | 0.17 | 2179                                                                                                            | 000000000000000000000000000000000000000                 | <1        | 15       | <5       | 133 *         | Seaderson processes ages                  | <10 <                                                                                                          | augu e chrus recorde e con                | a una destruction de capacita e peueu un                                                                                                                                                                                                                                                                                                                                                                              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| 78.1 118               | 13                                                                                                              | 82 0.7           | 647                     | <10 *          | con concernance according to the                            | 1.6 1270                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.56           | a constant and a set                     | 0.806                       | 0.01                                    | <1                                            | 0.66 | 2805                                                                                                            | 0.01                                                    | 2         | 14       | <5       | 667 *         | 13                                        | 26 <                                                                                                           |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 78.1 119               | se se de la companye  | 138 0.7          | 19                      | <10 *          |                                                             | 0.1 >2000                               | rectored and a second se | 12.08          | ene arraarra                             | 1.375                       | 000000000000000000000000000000000000000 | <1                                            | 0.3  | 2723                                                                                                            | 2020/2020/11/04/05/05/05/05/05/05/05/05/05/05/05/05/05/ | 2         | <5       | <5       | 146 *         | 2                                         | ********                                                                                                       | 0.0000000000000000000000000000000000000   | n en sono e conserva de conserva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 78.1 9580              | 15                                                                                                              | 8 1.8            | 1470                    | 96 *           |                                                             | 1.1 13.4                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.15           |                                          | < 0.01                      | 0.72                                    | 4                                             | 0.44 |                                                                                                                 | < 0.01                                                  | 2         | 48       | <5       | 89 *          |                                           | <10 <                                                                                                          | and the second second second              |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 78.1 9581<br>78.1 9582 | 9<br>36                                                                                                         | 62 0.9<br>87 3.4 | 173<br>14               | <10 *<br><10 * | 83000 (COMPANDED ST                                         | 2.5 1039<br>3.9 1180                    | 1111 S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.98           |                                          | 0.086                       | 2.2236.363.369.36                       | <1                                            | 0.91 | 2416                                                                                                            | 0.01                                                    | 3         | 8        | <5<br><5 | 164 *         | 20                                        | 20030000000000                                                                                                 | ta 3 batelata beserra da                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 78.1 9583              | 23                                                                                                              | 41 1.7           | 14                      | 321 *          |                                                             | 0.1 1243                                | natura de la como                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11.98          | x::::::::::::::::::::::::::::::::::::    | 0.089                       | escontro conceptations                  | 5<br><1                                       | 0.84 | 2993<br>2408                                                                                                    | and the second second second                            | 7<br><1   | <5<br>40 | <5<br>~5 | 533 *<br>60 * | 117<br>2                                  | 19 <<br>22 <                                                                                                   |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 78.2 129               | 23<br>10 ·                                                                                                      | 13 0.3           | 2837                    | <10 *          |                                                             | menerative contractions and a second    | 96.00 X 15.035.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 19.3           |                                          | 0.068                       | 0.07                                    | <1                                            | 0.50 | 2359                                                                                                            | entimeter Rottines                                      | > I<br><1 | 12<br>42 | <5<br><5 | 904 *         | 2<br>16                                   | 0.00000000000000                                                                                               | 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.    | ectorecce accordence prevente as                                                                                                                                                                                                                                                                                                                                                                                      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| 78.2 9589              | 28                                                                                                              | 54 0.1           | 702                     | <10 *          | and a second                                                |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27.75          |                                          | 0.089                       | 0.06                                    | <1                                            | 0.06 | and the second secon | <0.01                                                   | <1        | 42       | ~⊃<br><5 | 904<br>9*     |                                           | <10 <                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 78.2 9590              | 18                                                                                                              | 14 0.6           | 702                     | 129 *          |                                                             | 000000000000000000000000000000000000000 | 209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6.61           | 267222.20022                             | <0.01                       | 0.00                                    | 3                                             | 0.00 | 101000000000000000000000000000000000000                                                                         | <0.01                                                   | <1        | 10       | -5<br>-5 | 9<br>134 *    | 209267-2009-200968                        | <10 <                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 79.1 422               | 7                                                                                                               | 9 1.3            | 234                     | 551 *          |                                                             | 1.3 1                                   | An uniter terren un                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.58           |                                          | 0.018                       | 0.13                                    | <1                                            | 1.16 | 2237                                                                                                            |                                                         | 4         | <5       | 13       | <4 *          |                                           | <10 <                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 79.1 423               | 25                                                                                                              | 18 2.8           | 554                     | 197 *          | 000000000000000000000000000000000000000                     | 0.3 1.2                                 | concernences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.08           | 00000000000000000                        | 0.017                       | 0.22                                    | <1                                            | 3.02 | 2082                                                                                                            |                                                         | 15        | 12       | 18       | <4 *          | 000000000000000000000000000000000000000   | <10 <                                                                                                          | 10001000000000000000000000000000000000    | a na 2009.4070 na 19000 na 19000 na 19000                                                                                                                                                                                                                                                                                                                                                                             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| 79.1 424               | 19                                                                                                              | 13 2.9           | 270                     | 313 *          |                                                             | 5.2 0.5                                 | en openedation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.16           |                                          | 0.011                       | 0.38                                    | <1                                            | 2.65 | 4009                                                                                                            | an and many                                             | 7         | <5       | . 14     | 12 *          | 68                                        |                                                                                                                | and the second second second              |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 79.1 425               | 6                                                                                                               | 3 1.7            | 584                     | 157 *          | 00000000000000000000000000000000000000                      | 15 0.5                                  | 4000- <b>4</b> 00 <b>506</b> 52404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.3            |                                          | 0.011                       | 0.39                                    | <1                                            | 1.86 | 5155                                                                                                            | 0.03                                                    | 2         | <5       | 5        | <4 *          |                                           | <10 <                                                                                                          | ಇದಂತೆ ಎಂದಿ ನಿರ್ದೇಶನ                       | Next Street (NRC) (Street)                                                                                                                                                                                                                                                                                                                                                                                            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| 79.1 426               | 3                                                                                                               | 2 1.1            | 156                     | 118 *          |                                                             | 9.6 0,5                                 | entreprocessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.75           | and the second second                    | <0.01                       | ere and recommended                     | <1                                            | 2.3  | 3488                                                                                                            | 0.07                                                    | <1        | <5       | <5       | <4 *          |                                           | <10 <                                                                                                          | contraction and an experience             | an a a succession of the second                                                                                                                                                                                                                                                                                                                                                                                       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| 79.1 2836              | 2                                                                                                               | <1 0.5           | 228                     | 15 *           | <5                                                          | 21 <0.2                                 | 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.65           | 4                                        | <0.01                       | 0.02                                    | <1                                            | 1.23 | 11980                                                                                                           | 0.04                                                    | <1        | <5       | <5       | 4 *           | 224                                       | <10 <                                                                                                          | 0.01 3                                    | 3 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                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| 79.1 2837              | 9                                                                                                               | 6 1.5            | 108                     | 297 *          | <5 (                                                        | 5.2 0.3                                 | 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.94           | 5                                        | 0.011                       | 0.1                                     | <1                                            | 1.64 | 6782                                                                                                            | 0.01                                                    | 2         | <5       | 7        | <4 *          | 80                                        | <10 <                                                                                                          | 0.01 30                                   | ) <4 *                                                                                                                                                                                                                                                                                                                                                                                                                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| 79.1 2838              | 8                                                                                                               | 29 0.9           | 126                     | 1127 *         | <5 (                                                        | D.1 0.3                                 | 26 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10.96          | <2                                       | 0.288                       | 0.19                                    | <1                                            | 0.21 | 380                                                                                                             | 0.03                                                    | <1        | 9        | 5        | <4 *          | 11                                        | <10 <                                                                                                          | 0.01 22                                   | 2 12 *                                                                                                                                                                                                                                                                                                                                                                                                                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| 79.2 96                | 4                                                                                                               | <1 0.3           | 2440                    | 154 *          | <5 (                                                        | ).1 2                                   | 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8.64           | <2                                       | 0.148                       | 0.1                                     | 1                                             | 0.03 | 207                                                                                                             | 0.01                                                    | <1        | 75       | <5       | 1295 *        | 15                                        | <10 <                                                                                                          | 0.01 22                                   | 2 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                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| 7 <b>9.2</b> 97        | <1                                                                                                              | <1 0.2           | 438                     | <10 *          | <5                                                          | 24 4.7                                  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.74           | <2                                       | <0.01                       | 0.01                                    | 5                                             | 0.9  | >20000                                                                                                          | <0.01                                                   | 3         | <5       | <5       | 11 *          | 567                                       | <10 <                                                                                                          | 0.01 <1                                   | <4 *                                                                                                                                                                                                                                                                                                                                                                                                                  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| 79.2 261               | 3                                                                                                               | <1 0.2           | <5                      | 3693 *         | 0.0000000000000000000000000000000000000                     | 2011/08/09/001713012000                 | 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.17           | <2                                       | <0.01                       | 0.05                                    | <1                                            | 0.02 | 74                                                                                                              | 0.05                                                    | 2         | <5       | <5`      | <4 *          | 20                                        | <10 <                                                                                                          | 0.01 <1                                   | <4 *                                                                                                                                                                                                                                                                                                                                                                                                                  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| 79.2 262               | 4                                                                                                               | <1 0.2           | 29                      | 164 *          | and the base success                                        | ALTER OF A ALTER ALTER                  | 155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.3            |                                          | <0.01                       | 0.02                                    | 2                                             | 0.06 |                                                                                                                 | <0.01                                                   | 1         | <5       | <5       | <4 *          | 4                                         | <10 <                                                                                                          | 0.01 2                                    | 2 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                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| 79.2 420               | 10                                                                                                              | 16 0.1           | 2122000-040000000000000 | 38 *           | 160 9 99 03 19 03 19 00 00 10 10 10 10 10 10 10 10 10 10 10 | 1.6 182.4                               | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.51           |                                          | 0.057                       | 0.03                                    | <1                                            | 0.19 | 11087                                                                                                           | 000 hand off odd of de-                                 | <1        | 23       | <5       | 46 *          | 200022625255559000523                     | <10 <                                                                                                          | 0.01 3                                    | s <4 *                                                                                                                                                                                                                                                                                                                                                                                                                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| 79.3 92                | 41                                                                                                              | 9 1.8            | <5                      | 2734 *         | 100000000000000000000000000000000000000                     | ).9 5.5                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.74           |                                          | 0.019                       | 0.4                                     |                                               | 1.09 | 549                                                                                                             | 0.09                                                    | 3         | <5       | 10       | <4 *          |                                           | <10                                                                                                            | 0.1 133                                   |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 79.3 93                | 28                                                                                                              | 22 2.3           | 53                      | 1620 *         | <5                                                          | 2 0.4                                   | ****************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13.81          |                                          | 0.118                       | 0.34                                    | 1                                             | 1.34 | 1090                                                                                                            | e na ele companya de pe                                 | <1        | 56       | 20       | <4 *          | -macrosseesaano                           | <10 <                                                                                                          | *Decomposition                            | 000000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                               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| 79.4 90                | 10                                                                                                              | 1 0.6            | 11                      | <10 *          | <5 (                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 39.82          |                                          | 0.094                       |                                         | <1                                            | 0.59 | ana nana ing                                                                                                    | < 0.01                                                  | <1        | <5       | <5       | 198 *         | we were seen to be                        | <10 <                                                                                                          |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 79.4 91<br>79.4 254    | 17                                                                                                              | 8 0.2<br><1 0.1  | 6                       | <10 *<br>237 * | 10 11 11 11 11 11 11 11 11 11 11 11 11 1                    | 0.8 382.9                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 35.27          | an second a second                       | 0.053                       | 0.04                                    | <1                                            | 0.14 | 1989 - <b>S</b> . C. S.                                                     | < 0.01                                                  | <1        | 64       | <5       | 290 *         | 9                                         | 000000000000000000000000000000000000000                                                                        | 988 C - C - C - C - C - C - C - C - C - C |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 79.4 254<br>79.4 255   | 5<br>4                                                                                                          | <1 0.1 4 0.4     | 6<br><5                 | 465 *          | <5 0.                                                       | 0.000.000.000.000.000.000.000.000       | an a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 34.39          | 1000000000000                            | 0.205                       | 0.02                                    | <1                                            | 0.08 |                                                                                                                 | < 0.01                                                  | <1        | 35       | <5<br>~5 | 76 *          | contenenties of other                     | <10 <                                                                                                          | Augenetic and a second second second      | 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 79.4 454               | 4<br>14                                                                                                         | 21 1.8           | -5<br>198               | 465<br><10 *   | <5 2<br><5 7                                                | 2.3 366.1<br>7.7 246.5                  | **********                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 26.16          | ~2                                       | 0.071                       | 0.06                                    | <1<br>3                                       | 0.18 | 1156<br>13907                                                                                                   | 0.0000000000000000000000000000000000000                 | <1<br><1  | 23       | <5<br>6  | 87 *          | 52                                        | 15 <                                                                                                           | 1000-1000-0000 Second cole che cole c     | 210000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 79.5 256               | 64                                                                                                              | 22 2.4           | <5                      | 2222 *         |                                                             | 2.6 3.5                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4.82           | an a | <0.07                       | 0.01                                    | о<br>6                                        | 0.45 | 13907                                                                                                           | 0.18                                                    | 3         | 23<br><5 | -5       | 153 *<br><4 * | 247                                       | energe and the second second                                                                                   | 0.01    57<br>0.04    28                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 79.5 259               | 38                                                                                                              | 29 0.6           | <5                      | 2794 *         | <5 (                                                        |                                         | *******                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.46           |                                          | <0.01                       | 0.00                                    | ں<br><1                                       | 0.43 | 108                                                                                                             | 0.10                                                    | -3<br><1  | ~0<br><5 | ~0<br>6  | <4 *          | sterer contractor of the                  | <10                                                                                                            | 0.04 26                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 79.6 257               | 4                                                                                                               | <1 0.4           | <5                      | 1964 *         | and the second of the                                       | ).0 0.2                                 | and a substances of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.79           |                                          | en de la construcción de la | 0.03                                    | 8                                             | 0.37 | 152                                                                                                             | 0.08                                                    | 2         | ~5<br><5 | <5       | <4 *          |                                           | and a second                                                                                                   | 0.1 00                                    | and the state of the state of the                                                                                                                                                                                                                                                                                                                                                                                     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| 79.6 258               |                                                                                                                 | 11 2.5           | <5                      | 1418 *         | concrete se recourse do                                     | 000000000000000000000000000000000000000 | 129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.71           | C 2000000000                             | <0.01                       | 0.91                                    | 879 - SAN | 1.37 | 571                                                                                                             | 0.22                                                    | 5         | <5       | 14       | <4 *          | 000000000000000000000000000000000000000   | 0.00500.0000000000000000000000000000000                                                                        | 0.26 197                                  | 7.2020000.00200000.002000.00000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 79.7 8708              | 56                                                                                                              | 39 4             | <5                      | 1636 *         |                                                             | 2.4 0.9                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.86           |                                          | < 0.01                      | 0.31                                    | <1                                            | 1.21 | 244                                                                                                             | 0.29                                                    | <1        | <5       | <5       | <4 *          | a gynagonau a s                           | constant of the second                                                                                         | 0.14 110                                  |                                                                                                                                                                                                                                                                                                                                                                                                                       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| 80 143                 | 25                                                                                                              | 5 0.9            | 11                      | 628 *          | <5 (                                                        | ).5 4.2                                 | 223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.58           | <2                                       | <0.01                       | 0.16                                    | 5                                             | 0.55 | 1401                                                                                                            |                                                         | 5         | <5       | <5       | <4 *          | (00000000000000000000000000000000000000   | <10 <                                                                                                          | 50500° 0003107                            | 000,020,002,002,000,002,002,002,002,002                                                                                                                                                                                                                                                                                                                                                                               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| 80 9602                | 11                                                                                                              | 3 0.5            | 217                     | 97 *           | <5 (                                                        | ).1 16.4                                | 243                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.41           | <2                                       | <0.01                       | 0.11                                    | 1                                             | 0.3  | 416                                                                                                             | <0.01                                                   | 1         | <5       | <5       | <4 *          | lana kata kata kata kata kata kata kata k | <10 <                                                                                                          |                                           | and the second s |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 80 9603                | 22                                                                                                              | 23 2             | 8363                    | <10 *          | <5 4                                                        | .8 95.9                                 | 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 15.22          | <2                                       | 0.026                       | 0.05                                    | 2                                             | 1.78 | 5741                                                                                                            | <0.01                                                   | 5         | 16       | <5       | 27 *          | 172                                       | <10 <                                                                                                          | 0.01 108                                  | <4 *                                                                                                                                                                                                                                                                                                                                                                                                                  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| 81 2608                | 21                                                                                                              | 52 3.1           | 4                       | 30             | 230 3                                                       | 3.7 >100.0                              | 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.16           | <10                                      | 80.0                        | 1.42                                    | <10                                           | 0.48 | 2670                                                                                                            | 0.74                                                    |           | 6        | 1        |               | 114                                       |                                                                                                                | <.01 41                                   | 10                                                                                                                                                                                                                                                                                                                                                                                                                    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| 81 2609                | 3                                                                                                               | 12 0.6           | 4                       | 30             | 16 (                                                        | ).5 >100.0                              | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5.03           | <10                                      | 0.01                        | 0.07                                    | 10                                            | 0.07 | 850                                                                                                             | 0.07                                                    |           | 140      | 1        |               | 32                                        |                                                                                                                | 0.03 17                                   | ' 10                                                                                                                                                                                                                                                                                                                                                                                                                  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| 82.1 376               | 32                                                                                                              | 15 1.9           | 26                      | 195 *          | <5 3                                                        | 1.1 360.7                               | 0.950050-0605050505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.94           | 3                                        | 0.063                       | 0.16                                    | 7                                             | 0.96 | 3823                                                                                                            | <0.01                                                   | <1        | 103      | 6        | 18 *          | 42                                        | <10 <                                                                                                          | 0.01 47                                   | <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 82.1 377               | 36                                                                                                              | 18 1             | 519                     | 212 *          | <5 0.                                                       | NOT A CONTRACT OF CONTRACTOR            | a shaft de balence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4. <b>8</b> 5  | 10002000000000000                        | 0.113                       | 0.16                                    | concernation of                               | 0.33 | сологоз есес соселься е                                                                                         | <0.01                                                   | <1        | 50       | <5       | 30 *          | 4                                         | <10 <                                                                                                          | a hara a sa a sa a                        | an a                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 82.1 378               | 26                                                                                                              | 20 1.5           | 16                      | 90 *           | <5 (                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.33           | 1996200000000000000000000000000000000000 | 0.075                       | 0.06                                    | 3                                             | 0.55 | 1685                                                                                                            | 0.0000000000000000000000000000000000000                 | 1         | 186      | <5       | 51 *          |                                           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                                                        | 0.02 65                                   | , 253/200.480/8 means a state of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 82.2 379               | 27                                                                                                              | 19 0.6           | 51                      | 333 *          | 20 0                                                        | communication contract marche la        | 184                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2.47           | en al anos a a                           | 0.051                       | 0.12                                    | 5                                             | 0.14 | 410                                                                                                             | 0.01                                                    | 1         | 8        | <5       | <4 *          | dena na venina                            | and and a second se | 0.01 90                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 82.2 380               | a de la color a de la color | 45 0.5           | <5                      | 216 *          | 92:0.                                                       | 7800.000.000 63.2 20100                 | r 2003 000 000 000 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.25           | 00.00000000000000                        | 0.508                       | 0.13                                    | <1                                            | 0.12 |                                                                                                                 | <0.01                                                   | <1        | 70       | <5       | 35 *          | 3                                         | 19 <                                                                                                           |                                           | 900 000 00 0 000 00 00 00 00 00 00 00 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 82.2 2613              | 18                                                                                                              | 19 2.1           | 42                      | 10             | 24 3                                                        | 8.2 >100.0                              | 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6.38           | <10                                      | 0.19                        | 0.13                                    | <10                                           | 0.81 | 4440                                                                                                            | <.01                                                    |           | 64       | 3        |               | 122                                       |                                                                                                                | 0.01 81                                   | <10                                                                                                                                                                                                                                                                                                                                                                                                                   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| Map  | Sample | Location                    | Sample | Sample    | Sample | Sample Description                                                                                               |        | * Ag | * Cu                                                 | * Pb *                                                                                                         | Zn   | * Mo |
|------|--------|-----------------------------|--------|-----------|--------|------------------------------------------------------------------------------------------------------------------|--------|------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------|------|
| No.  | No.    |                             | Туре   | Size (ft) | Site   |                                                                                                                  | Au ppb |      | opt ppm                                              |                                                                                                                |      |      |
| 82.2 | 9694   | Lake                        | Rep    | 4.6       | UW     | Shear zone w/ qz br, phyllite, py, sl, gn                                                                        | <5     | 10.  |                                                      |                                                                                                                | 1.3  | * 4  |
| 82.2 | 9695   | Lake                        | Rep    | 3         | UW     | Shear zone w/ qz br, py, si, gn                                                                                  | <5     | 1.1  | 7 31                                                 | 3 820                                                                                                          | 717  | 3    |
| 82.2 | 9696   | Lake                        | C      | 0.9       | TP     | Shear zone w/ qz, gn, sl, py, trace cp                                                                           | <5     | 19.  | 3 566                                                | 3500                                                                                                           | 18.8 | 2    |
| 83   | 2644   | Berg Basin                  | G      | 0.4       | FL     | Qz vn w/ blebs of si, gn & py                                                                                    | 10     | 7    | 5 530                                                | <b>2.12</b> *                                                                                                  | 5.0  | * 20 |
| 84.1 | 373    | Copper King                 | G      |           | FL     | Msv py w/ cp, sl                                                                                                 | 23     | 11.  | 3 484                                                | 35                                                                                                             | 2.7  | * 31 |
| 84.1 | 374    | Copper King                 | C      | 0.7       | OC     | Irregular band of msv py, cp, sl w/ qz                                                                           | 39     | 18.  | 9 563                                                | € 41                                                                                                           | 2.1  |      |
| 84.1 | 375    | Copper King                 | S      |           | MD     | Alt int w/ msv py, sl, lesser cp                                                                                 | 16     | 1;   | 2 469                                                | 4 81                                                                                                           | 1.9  | * 27 |
| 84.2 | 372    | Copper King                 | S      | 1.6       | OC     | Qz vn w/ py                                                                                                      | 679    | 2.   | 1 20                                                 | ) 7                                                                                                            | 41   | 4    |
| 85   | 73     | Berg                        | SS     |           |        | and the second | <5     | 0.   | 2 40                                                 | ) 10                                                                                                           | 99   | 2    |
| 85   | 241    | Berg                        | RC     |           | FL     | Qz peg cobbles in stream                                                                                         | <5     | <0.  | 1 14                                                 | 1 20                                                                                                           | 41   | 1    |
| 86.1 | 466    | Black Crag                  | G      | 0.3       | FL     | Fest, qz-rich br w/ po                                                                                           | 93     | 43.  | 5 37                                                 | 7 70                                                                                                           | 558  | 23   |
| 86.2 | 476    | Black Crag                  | G      | 0.2       | FL     | Felsite w/ mo along fractures                                                                                    | <5     | 0.:  | 2 7:                                                 | 5 19                                                                                                           | 44   | 1348 |
| 86.2 | 479    | Black Crag                  | G      | 1         | FL     | Fest, sil volc w/ py cubes                                                                                       | <5     |      | 2 58                                                 | 3 17                                                                                                           | 6    | 6    |
| 86.2 | 8731   | Black Crag                  | G      |           | FL     | Gray, fest, sil volc w/ fg py lenses & pods                                                                      | 110    | :    | 9 2                                                  | 5 16                                                                                                           | 206  | 4    |
| 86.3 | 480    | Black Crag                  | G      | 0.4       | FL     | Fg fel int w/ qz-mo seam                                                                                         | <5     | 1.   | 2 187                                                | 7 18                                                                                                           | 167  | 735  |
| 86.3 | 8733   | Black Crag                  | S      |           | FL     | Sil, fest int w/ py, cp                                                                                          | <5     | 1.   | 8 1508                                               | 8 4                                                                                                            | 77   | 43   |
| 86.3 | 8734   | Black Crag                  | RC     | 5         | 00     | Maroon, very fg hornfels w/ minor po, py                                                                         | <5     | <0.  | 1 50                                                 | 5 10                                                                                                           | 108  | 8    |
| 86.4 | 8732   | Black Crag                  | S      |           | RC     | Fest granite w/ very fg dissem py                                                                                | <5     | <0.  |                                                      |                                                                                                                | 48   | 15   |
| 87   | 2844   | Craig River area            | G      | 0.5       | OC     | Qz vn w/ py                                                                                                      | 35     | 0.0  | 6 28(                                                | ) <2                                                                                                           | 33   | 2    |
| 87   | 3736   | Craig River area            | G      |           | RC     | Msv py in qz & metaseds                                                                                          | 17     | 0.3  |                                                      |                                                                                                                | 10   | 478  |
| 87   | 3746   | Craig River area            | С      | 2.2       | 00     | Gossan w/ qz at margins of marble                                                                                | 41     | <0.  | 1 12'                                                | <2                                                                                                             | 10   | 11   |
| 87   | 3747   | Craig River area            | S      |           | RC     | Sil skarn w/ msv py, po                                                                                          | 37     | 2.5  |                                                      | 3                                                                                                              | 19   | 8    |
| 88.1 | 2840   | Craig Claims area           | C      | 0.7       | OC     | Metaseds w/ po                                                                                                   | <5     | 0.:  | 2 266                                                | 5 5                                                                                                            | 36   | 42   |
| 88.1 | 2841   | Craig Claims area           | С      | 1.1       | OC     | Fest metaseds                                                                                                    | <5     | 0.3  | 3 37'                                                |                                                                                                                | 18   | 10   |
| 88.1 | 3741   | Craig Claims area           | RC     | 2461655   | OC     | Skarn w/ py in metaseds                                                                                          | 8      | 2.   | 7 1277                                               | ' 17                                                                                                           | 2288 | 58   |
| 88.2 | 3737   | Craig Claims area           | G      |           | RC     | Sil sc w/ py, minor cp                                                                                           | <5     | <0.1 | 1 213                                                | 3 5                                                                                                            | 6    | 91   |
| 88.2 | 3738   | Craig Claims area           | Rep    |           | RC     | Py, po, minor cp in metaseds                                                                                     | 8      | 1.3  | 2 1273                                               | 5                                                                                                              | 45   | 12   |
| 88.2 | 3739   | Craig Claims area           | G      |           | RC     | Py in skarn                                                                                                      | <5     | 0.   | 5 560                                                | ) <2                                                                                                           | 11   | 3    |
| 88.2 | 3740   | Craig Claims area           | G      | 이 있는 영향 : | RC     | Msv py, po, cp in hornblendite                                                                                   | 30     | 9.3  |                                                      |                                                                                                                | 3.1  | * 8  |
| 89.1 | 473    | North Bradfield River Skarn | G      | 0.5       | RC     | Fest, sil rock w/ po,cp                                                                                          | <5     | •    | 1 539                                                |                                                                                                                | 47   | 12   |
| 89.1 | 8726   | North Bradfield River Skarn | G      |           | RC     | Qz-rich gneiss w/ dissem po, trace cp on fractures                                                               | <5     | 0.7  | 7 398                                                | 1 7                                                                                                            | 57   | 3    |
| 89.2 | 455    | North Bradfield River Skarn | G      | 0.3       | RC     | Msv po w/ cp                                                                                                     | 26     | 1.3  |                                                      | ) 27                                                                                                           | 236  | 2    |
| 89.2 | 456    | North Bradfield River Skarn | Rep    | 2         | 00     | Hbl w/ po, mag, cp                                                                                               | 115    | 8.7  | 수영 영화 이는 요구가 가지 않는 것 같아. 아이들 것 같아.                   |                                                                                                                | 178  | 2    |
| 89.2 | 2860   | North Bradfield River Skarn | G      |           | RC     | Skarn w/ po, cp .                                                                                                | 25     | 1.7  |                                                      |                                                                                                                | 139  | 2    |
| 89.2 | 2861   | North Bradfield River Skarn | G      | <u>.</u>  | RC     | Skam w/ po, cp                                                                                                   | 164    | 2.4  | mana sina sina na n |                                                                                                                | 182  | 3    |
| 89.3 | 471    | North Bradfield River Skarn | С      | 2         | TP     | Fest mag                                                                                                         | 190    | 1.2  |                                                      |                                                                                                                | 151  | 3    |
| 89.3 | 8725   | North Bradfield River Skarn | S      |           | RC     | Msv mag                                                                                                          | 32     | 0.9  | ana anao ang     |                                                                                                                | 53   | 4    |
| 89.4 | 474    | North Bradfield River Skarn | G      | 0.5       | FL     | Msv mag w/ bands of po, cp                                                                                       | 34     | 0.4  |                                                      |                                                                                                                | 112  | 3    |
| 89.4 | 475    | North Bradfield River Skarn | G      | 0.6       | FL     | Qz-calc-garnet skarn w/ po, cp                                                                                   | 26     | 2.1  | 1.011010000000000000000000000000000000               | condension and an and a second second second                                                                   | 33   | 8    |
| 89.4 | 8727   | North Bradfield River Skarn | Rep    | 1         | RC     | Very fg, maroon, fest, msv garnet w/ py, cp                                                                      | 6      | 3.0  |                                                      |                                                                                                                | 31   | 10   |
| 89.4 | 8728   | North Bradfield River Skarn | Rep    | 1         | 00     | Bt sc w/ py, po                                                                                                  | <5     | 0.4  | 112 IO           | Sectore: 14960 (200 x462 (201 ) 2018                                                                           | 45   | 3    |
| 89.4 | 8729   | North Bradfield River Skarn | S      | 0.8       |        | Very fg, maroon, fest, msv garnet w/ py, cp                                                                      | 26     | 1.2  |                                                      |                                                                                                                | 50   | 168  |
| 89.5 | 472    | North Bradfield River Skarn | S      | 0.4       | RC     | Hbl, mag, po, cp                                                                                                 | 60     | 1.5  |                                                      | 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -                                                                        | 53   | 4    |
| 89.5 | 484    | North Bradfield River Skarn | С      | 4.5       | TP     | Msv garnet skarn w/ streaks of cp, dissem po                                                                     | 93     | 1.7  |                                                      |                                                                                                                | 40   | 7    |
| 89.6 | 481    | North Bradfield River Skarn | C      | 1         |        | Fest, sil gneiss w/ dissem mag, py                                                                               | <5     | 0.3  |                                                      | 2.000.000.000.000.000.000.000.0000.000                                                                         | 45   | 220  |
| 89.6 | 487    | North Bradfield River Skarn | SC     | 18 @ 0.25 |        | Tactite w/ mag, po, cp .                                                                                         | 69     | 1    |                                                      | and a second | 39   | 6    |
| 89.6 | 488    | North Bradfield River Skarn | SC     | 18 @ 0.25 | TP     | Tactite w/ mag, po, cp                                                                                           | 14     | 1.1  | I 844                                                | <2                                                                                                             | 38   | 4    |

1- -

| Map Sample             | e Ni Co Al As                   | Ba * Bi Ca Cd Cr                                                 | Fe Ga Hg K La Mg Mn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Na Nb Sb Sc Sn * Sr Te Ti V W * Pt Pd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|---------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. No.                | ppm ppm % ppm                   | ppm xrf ppm % ppm ppm                                            | % ppm ppm % ppm % ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | % ppm ppm ppm ppm xrf ppm ppm % ppm ppm xrf ppb ppb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 82.2 9694              | 29 23 3.2 8                     | 1059 * <5 5 119.6 105                                            | 7.72 4 0.787 0.33 7 2.27 3388                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.04 1 <5 14 8 * 140 <10 0.09 223 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 82.2 9695              | 115 30 4.3 37                   | 217 * <5 5.5 5.9 440                                             | when the Weiner and a contract the second state and the second state of the second state and the second s | <0.01 2 <5 16 <4 * 211 <10 <0.01 129 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 82.2 9696              | 15 31 1.7 11                    | 357 * <5 0.1 1717 74                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.01 2 <5 <5 22* 5 11 0.02 86 <4*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 83 2644                | 14 26 0.3 1060                  | 20 <2 0.02 >100.0 206                                            | 4.55 <10 0.05 0.09 <10 0.08 245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <pre>&lt;.01 16 &lt;1 &lt;1 &lt;.01 17 &lt;10 0.01 &lt;1 &lt;5 &lt;5 22 * 11 &lt;10 &lt;0.01 45 &lt;4 *</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 84.1 373<br>84.1 374   | 60 128 0.8 <5<br>74 86 0.3 15   | 373 * <5 0.6 483.7 57<br>1040 * <5 0.02 381.4 53                 | >10 <2 0.391 0.09 <1 0.71 436<br>>10 <2 0.605 0.09 <1 0.17 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.01 <1 <5 <5 22 * 11 <10 <0.01 45 <4 *<br>0.02 <1 <5 <5 26 * 2 <10 <0.01 7 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 84.1 375               | 73 81 0.4 5                     | 1040 <5 0.02 381.4 33                                            | >10 <2 0.458 0.08 <1 0.17 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.02 <1 <5 <5 20 2 <10 <0.01 7 <4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 84.2 372               | 23 9 0.9 151                    | 306 * <5 1.7 0.5 226                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <pre>&lt;0.01 &lt;1 &lt;5 15 &lt;4 * 33 &lt;10 &lt;0.01 44 &lt;4 *</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 85 73                  | 23 3 0.3 131                    | 1952 * <5 0.7 0.3 39                                             | 3.05 4 0.02 0.33 9 1.18 426                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.03 3 <5 <5 <4 * 26 <10 0.14 61 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 85 241                 | 5 <1 0.4 <5                     | 899 * <5 0.5 <0.2 87                                             | 0.55 <2 <0.01 0.18 2 0.08 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.06 3 <5 <5 <20 9 <10 0.01 7 <20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 86.1 466               | 17 6 0.3 117                    | 87 * <5 0.02 4 94                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <pre>&lt;0.00 26 &lt;5 &lt;5 5* &lt;1 &lt;10 0.01 4 6*</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 86.2 476               | 3 <1 0.2 <5                     | <10 * <5:0.01 1.6 120                                            | 0.66 <2 <0.01 0.15 6 <0.01 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.07 <1 <5 <5 <4 * <1 <10 0.02 <1 5 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 86.2 479               | 7 <1:0.01 36                    | 41 * <5:0.01 <0.2 176                                            | - an e cara de marco más e come contra de arrege de arrege de cara e de come e come de come e come de come e c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <0.01 20 <5 <5 8* 1 <10 0.04 2 <4*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 86.2 8731              | 2 6 0.5 336                     | 4344 * <5 0.5 0.2 36                                             | 7.13 <2 0.03 0.27 23 0.04 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <0.01 2 <5 <5 <4 * 5 <10 0.06 3 13 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 86.3 480               | 4 <1 0.5 <5                     | 194 * <5 0.8 2.2 178                                             | 1.69 <2 <0.01 0.35 130 0.08 186                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.26 53 <5 <5 6 * 27 <10 0.08 14 21 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 86.3 8733              | 57 60 0.6 <5                    | 16 * <5 0.1 <0.2 58                                              | >10 2 <0.01 0.59 11 0.03 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.04 10 <5 <5 <4 * 7 <10 0.02 7 8 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 86.3 8734              | 15 11 2.5 <5                    | 532 * <5 0.2 0.3 62                                              | 4.42 10 <0.01 1.23 14 1.43 702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.11 <1 <5 10 6 * 9 <10 0.24 69 8 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 86.4 8732              | 4 <1 0.3 <5                     | 225 * <5:0.01 <0.2 155                                           | 1.35 4 <0.01 0.15 13 0.02 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.06 <1 <5 <5 <4 * <1 <10 <0.01 4 5 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 87 2844                | 8 118 1.2 5                     | 1314 * <5 0.6 <0.2 151                                           | 6.17 4 <0.01 0.17 2 0.59 215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.09 <1 <5 <5 <4 * 33 <10 0.12 63 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 87 3736                | 13 96 0.4 8                     | 543 * <5 0.3 <0.2 100                                            | >10 <2 <0.01 0.04 1 0.03 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.04 <1 <5 <5 13 * 12 11 0.13 19 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 87 3746                | 11 26 0.2 9                     | 24 * <5 0.3 <0.2 193                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.01 <1 <5 <5 <4 * 8 <10 0.02 69 7 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 87 3747                | 26 24 0.3 <5                    | 17 * <5 2.9 <0.2 61                                              | >10 <2 0.021 <0.01 <1 0.1 217                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | and a second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 88.1 2840              | 219 41 2.7 <5                   | 829 <5 1.8 <0.2 310                                              | 4.42 3 <0.01 0.85 1 1.94 306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.19 <1 <5 5 79 106 <10 0.19 131 <20*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 88.1 2841              | 31 35 1.3 <5                    | 147 <5 1.6 <0.2 58                                               | 4.13 3 <0.01 0.09 <1 0.58 231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.19 <1 <5 6 9 84 <10 0.33 73 <20 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 88.1 3741              | 351 91 1 <5                     | 454 * <5 1.1 33.9 62                                             | >10 2 <0.01 0.09 1 0.31 219                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.04 <1 <5 <5 <4* 26 <10 0.06 73 <4*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 88.2 3737              | 19 9 0.3 <5                     | 3042 * <5 0.2 <0.2 145                                           | 1.38 <2 <0.01 0.11 3 0.12 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.11 3 <5 <5 <4 * 43 <10 0.05 16 8 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 88.2 3738              | 106 37 1.6 <5<br>54 36 0.7 <5   | 1219 * <5 1.6 0.6 143<br><10 * <5 5 <0.2 128                     | 542 3 <0.01 0.3 <1 0.79 262                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.16 <1 <5 <5 <4 * 81 <10 0.22 69 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 88.2 3739<br>88.2 3740 | 54 36 0.7 <5<br>119 47 0.4 9    | <pre>&lt;10 * &lt;5 5 &lt;0.2 128 163 * &lt;5 1.1 296.1 41</pre> | 9.04 2 <0.01 <0.01 <1 0.03 1292<br>>10 3 1.2 0.02 4 0.14 735                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <pre>&lt;0.01 &lt;1 &lt;5 &lt;5 &lt;4 * 10 &lt;10 0.05 149 &lt;4 * 0.02 &lt;1 &lt;5 &lt;5 108 * 23 19 0.13 47 &lt;4 *</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 89.1 473               | 32 28 0.5 <5                    | 163 ~5 1.1 296 1 41                                              | 5.55 <2 <0.01 0.15 4 0.4 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.02 <1 <5 <5 <4 * 20 <10 0.13 47 7 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 89.1 8726              | 26 25 0.6 <5                    | 2016 * <5 0.5 0.5 70                                             | 4.37 <2 <0.01 0.1 3 0.46 139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 89.2 455               | 31 84 0.6 <5                    | 12 * <5 0.6 0.6 16                                               | >10 <2 <0.01 0.03 2 0.14 808                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.02 <1 <5 <5 29* 20 16 0.04 87 5*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 89.2 456               | 56 155 1.2 <5                   | 107 * <5 1.9 1.9 64                                              | >10 <2 0.018 0.09 2 0.4 634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.08 <1 <5 <5 17 * 52 12 0.05 63 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 89.2 2860              | 34 81 1.5 8                     | 323 * <5 1.5 0.4 29                                              | >10 4 <0.01 0.09 3 0.22 645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.1 <1 <5 <5 26 * 65 15 0.08 142 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 89.2 2861              | 43 129 0.2 <5                   | <10 * <5 1.2 0.9 10                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <0.01 <1 <5 <5 37 * 6 21 <0.01 37 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 89.3 471               | 12 19 0.4 <5                    | <10 * <5 0.2 <0.2 9                                              | >10 <2 <0.01 <0.01 3 0.07 632                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 89.3 8725              | 7 16 0.3 <5                     | <10 * <5 0.04 <0.2 6                                             | >10 4 <0.01 <0.01 1 0.06 488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 89.4 474               | <b>11 136 0</b> .1 <b>&lt;5</b> | <10 * <5 0.2 <0.2 17                                             | >10 <2 <0.01 <0.01 2 0.05 634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.01 <1 <5 <5 36 * 3 14 <0.01 26 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 89.4 475               | 25 88 1 <5                      | 14 * <5 6 0.9 109                                                | >10 4 0.014 0.01 2 0.04 1371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.01 <1 <5 <5 5* 5 <10 0.02 24 <4*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 89.4 8727              | 51 225 0.9 <5                   | 11 * <5 6.3 0.6 86                                               | >10 3 <0.01 <0.01 3 0.05 1554                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 89.4 8728              | 75 23 2.6 <5                    | 450 * <5 3.3 <0.2 58                                             | 2.82 6 <0.01 0.07 13 0.74 186                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.16 <1 <5 <5 5* 228 <10 0.12 29 6*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 89.4 8729              | 81 65 1 <5                      | 69 * <5 6.1 1.2 104                                              | >10 2 <0.01 <0.01 1 0.09 1804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NUMBER OF A DESCRIPTION O |
| 89.5 472               | 74 146 2 <5                     | <10 * <5 3 7 0.4 59                                              | >10 3 <0.01 <0.01 <1 0.07 1112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.04 <1 <5 <5 11 * 102 12 0.07 80 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 89.5 484               | 45 72 3.9 <5                    | 260 * <5 5.4 0.6 54                                              | 6.24 5 < 0.01 0.03 3 0.09 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.14 <1 <5 <5 <4 * 193 13 0.08 60 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 89.6 481               | 21 4 0.7 <5                     | 1204 * <5 1 0.4 153                                              | 1.79 <2 <0.01 0.09 5 0.14 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.09 <1 <5 <5 <4 * 49 <10 0.06 25 <4 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 89.6 487               | 14 49 1.1 <5                    | 714 * <5 2.6 <0.2 50                                             | >10 3 <0.01 0.05 4 0.12 702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.04 <1 <5 <5 14 * 46 12 0.04 95 10 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 89.6 488               | 12 40 0.5 <5                    | <10 * <5 2.2 <0.2 42                                             | >10 5 <0.01 0.04 3 0.12 713                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.02 <1 <5 <5 29* 18 14 0.03 185 <4*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Мар        |      | Location                    | Sample | Sample                                |                                       | Sample Description                                                                                             | *          | Ag *    | Cu    | * Pb *  | Zn *  | Mo    |
|------------|------|-----------------------------|--------|---------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------|------------|---------|-------|---------|-------|-------|
| No.        | No.  |                             | Туре   | Size (ft)                             | Site                                  | and second s | Au ppb opt | ppm opt |       | % ppm % | ppm % | 6 ppm |
| 89.7       | 482  | North Bradfield River Skarn | G      | 0.9                                   | RC                                    | Fest, sil gneiss w/ml, cp                                                                                      | 289        | 1.6     | 2586  | <2      | 18    | 8     |
| 89.7       | 483  | North Bradfield River Skarn | C      | 1.2                                   | 00                                    | Gossan w/ po, cp                                                                                               | 19         | 3.4     | 3307  | <2      | 37    | 100   |
| 89.7       | 2645 | North Bradfield River Skarn | Rep    | 8                                     | 00                                    | Mag & hematite band                                                                                            | 3600       | 11.6    | 1130  | 6       | 150   | 3     |
| 89.7       | 2646 | North Bradfield River Skarn | C      | 0.8                                   | 00                                    | Fest qz lens w/ mag                                                                                            | 1360       | 3.4     | 2200  | 27      | 95    | 3     |
| 89.7       | 8735 | North Bradfield River Skarn | C      | 2.3                                   | TP                                    | Msv mag w/ po, cp replacing marble                                                                             | 136        | 2.9     | 3351  | <2      | 64    | 4     |
| 89.7       | 8736 | North Bradfield River Skarn | С      | 7.6                                   | TP                                    | Msv mag w/ fg to mg euhedral garnet in marble                                                                  | 95         | 1.2     | 658   | <2      | 32    | 6     |
| 89.7       | 8737 | North Bradfield River Skarn | SC     | 10.4 @ 0                              | . OC                                  | Msv mag w/ garnet, trace cp in marble                                                                          | 281        | 1.6     | 623   | <2      | 47    | 3     |
| 89.7       | 8738 | North Bradfield River Skarn | SC     | 10.4 @ 0                              | . OC                                  | Msv mag & garnet in marble                                                                                     | 121        | 2.5     | 1481  | <2      | 42    | 3     |
| 90.1       | 463  | Mt Lewis Cass               | G      |                                       | FL                                    | Fest metamorphics w/ po, cp                                                                                    | 41         | 1.3     | 1832  | 3       | 29    | 3     |
| 90.1       | 464  | Mt Lewis Cass               | G      | 0.3                                   | FL                                    | Sil metamorphics w/ vuggy qz                                                                                   | 28         | 0.9     | 74    | 3       | 12    | 15    |
| 90.2       | 8717 | Mt Lewis Cass               | S      |                                       | FL                                    | Boulder of purple metaseds w/ cp, po, mag in 1.5" vn                                                           | 289        | 17.6    | 1.3 * | 9       | 203   | 29    |
| 90.2       | 8718 | Mt Lewis Cass               | C      | 0.3                                   | 00                                    | Qz vn w/ dissem mo in int                                                                                      | <5         | 0.3     | 46    | 14      | 20    | 1240  |
| 90.3       | 470  | Mt Lewis Cass               | G      | 0.4                                   | RC                                    | Band of fest, sil marble & sc w/ py                                                                            | <5         | 1.5     | 60    | 11      | 16    | 31    |
| 90.3       | 8723 | Mt Lewis Cass               | Rep    | 0.5                                   | 00                                    | Fest granulite w/ dissem po, trace cp                                                                          | <5         | 0.5     | 198   | 4       | 62    | 4     |
| 90.3       | 8724 | Mt Lewis Cass               | Rep    | 5                                     | OC                                    | Purple, heavily fest granulite w/ dissem po                                                                    | 18         | 0.6     | 122   | 5       | 84    | 7     |
| 91         | 2845 | Upper Marten Lake           | Rep    |                                       | OC                                    | Qz vn                                                                                                          | <5         | 0.3     | 26    | 4       | 119   | 6     |
| 91         | 2846 | Upper Marten Lake           | С      | 3                                     | OC                                    | Fault gouge                                                                                                    | <5         | 0.6     | 80    | 7       | 188   | 14    |
| 91         | 2847 | Upper Marten Lake           | G      |                                       | OC                                    | Fest zone                                                                                                      | 475        | 86.9    | 44    | 1218    | 418   | 8     |
| <b>9</b> 1 | 3748 | Upper Marten Lake           | S      |                                       | OC                                    | Fest qz in shear w/ minor py, po                                                                               | <5         | 0.2     | 62    | 5       | 91    | 6     |
| 92.1       | 66   | Bradfield River             | SS     |                                       |                                       | Sands in tide flat                                                                                             | <5         | <0.1    | 19    | 9       | 74    | 1     |
| 92.1       | 67   | Bradfield River             | SS     | - x                                   |                                       | Taken in mud flat @ tidal zone                                                                                 | <5         | 0.1     | 25    | 8       | 74    | 2     |
| 92.1       | 234  | Bradfield River             | SS     |                                       | · · · · · · · · · · · · · · · · · · · | Mud from tidal flat                                                                                            | <5         | 0.1     | 24    | 8       | 69    | <1    |
| 92.1       | 235  | Bradfield River             | SS     |                                       |                                       | Mud from tidal flat                                                                                            | <5         | 0.1     | 25    | 9       | 70    | 1     |
| 92.2       | 68   | Bradfield River             | SS     |                                       |                                       | Taken in mud flat @ tidal zone                                                                                 | <5         | <0.1    | 15    | 6       | 38    | <1    |
| 92.2       | 69   | Bradfield River             | SS     | · · · · · · · · · · · · · · · · · · · |                                       | Mag sands in tidal zone                                                                                        | <5         | <0.1    | 17    | 7       | 33    | <1    |
| 92.2       | 236  | Bradfield River             | SS     |                                       |                                       | Mud from tidal flat                                                                                            | <5         | <0.1    | 16    | 5       | 35    | <1    |
| 92.2       | 237  | Bradfield River             | SS     |                                       |                                       | Mud from tidal flat                                                                                            | <5         | <0.1    | 11    | 7       | 52    | <1    |
| 92.3       | 70   | Bradfield River             | ss     |                                       |                                       | Mag sands in tidal zone                                                                                        | <5         | <0.1    | 13    | 9       | 55    | <1    |
| 92.3       | 71   | Bradfield River             | SS     |                                       |                                       | Mag sands in tidal zone                                                                                        | <5         | <0.1    | 19    | 6       | 37    | <1    |
| 92.3       | 238  | Bradfield River             | SS     |                                       | (in the second                        | Black sands                                                                                                    | 10         | <0.1    | 10    | 7       | 90    | <1    |
| 92.3       | 239  | Bradfield River             | SS     |                                       |                                       | Black sands                                                                                                    | <5         | <0.1    | 17    | 6       | 32    | <1    |

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| Мар  | Sample | Ni  | Со  | AI  | As  | Ba *    | Bi               | Са            | Cd   | Сг             | Fe    | Ga                                                                                                                                                                                                                                 | Hg    | ĸ      | La  | Mg   | Mn   | Na    | Nb  | Sb  | Sc  | Sn *    | Sr                 | Te              | Ti    | V   | W * Pt Pd       |
|------|--------|-----|-----|-----|-----|---------|------------------|---------------|------|----------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-----|------|------|-------|-----|-----|-----|---------|--------------------|-----------------|-------|-----|-----------------|
| No.  | No.    | ppm | ppm | %   | ppm | ppm xrf | ppm              | %             | ppm  | ppm            | %     | ppm                                                                                                                                                                                                                                | ppm   | %      | ppm | %    | ppm  | %     | ppm | ppm | ppm | ppm xrf | ppm                | ppm             | %     | ppm | ppm xrf ppb ppb |
| 89.7 | 482    | 28  | 127 | 2.3 | 7   | 43 *    | <5               | 3.7           | <0.2 | 51             | 9.34  | 2                                                                                                                                                                                                                                  | <0.01 | <0.01  | 2   | 0.11 | 611  | 0.02  | <1  | <5  | <5  | <4 *    | . 69               | <10             | 0.07  | 46  | <4 *            |
| 89.7 | 483    | 51  | 74  | 1.8 | <5  | 104 *   | <5               | 4.6           | 0.7  | 53             | >10   | 4                                                                                                                                                                                                                                  | <0.01 | 0.01   | 2   | 0.16 | 1308 | 0.04  | <1  | <5  | <5  | 15 *    | 35                 | 11              | 0.07  | 168 | 4 *             |
| 89.7 | 2645   | 4   | 18  | 0.5 | . 2 | 10      | <2               | 0.5           | 1.5  | 21 >           | 15.00 | 20                                                                                                                                                                                                                                 | 0.05  | 0.01   | <10 | 0.02 | 670  | <.01  |     | <2  | <1  |         | 9                  |                 | 0.01  | 36  | <10             |
| 89.7 | 2646   | 8   | 17  | 1.3 | <2  | 10      | <2               | 4.8           | 1.5  | 226            | 5.37  | <10                                                                                                                                                                                                                                | 0.02  | <.01   | <10 | 0.04 | 865  | <.01  |     | <2  | 1   |         | 7                  | 1000            | 0.02  | 40  | <10             |
| 89.7 | 8735   | 17  | 62  | 0.6 | <5  | 303 *   | <5               | 1.2           | <0.2 | 11             | >10   | <2                                                                                                                                                                                                                                 | 0.011 | 0.02   | 2   | 0.08 | 518  | 0.01  | <1  | <5  | <5  | 31 *    | 6                  | 20              | 0.02  | 30  | <4 *            |
| 89.7 | 8736   | 8   | 29  | 0.7 | <5  | 16 *    | <5               | 2.2           | <0.2 | 20             | >10   | <2                                                                                                                                                                                                                                 | <0.01 | 0.04   | <1  | 0.05 | 823  | 0.01  | <1  | <5  | <5  | 24 *    | 8                  | 15              | 0.02  | 32  | 24 *            |
| 89.7 | 8737   | 6   | 22  | 1.1 | <5  | 283 *   | <5               | 1.3           | 0.3  | 15             | >10   | 2                                                                                                                                                                                                                                  | <0.01 | 0.06   | 2   | 0.13 | 494  | 0.06  | <1  | <5  | <5  | 24 *    | 56                 | 11              | 0.03  | 39  | <4 *            |
| 89.7 | 8738   | 4   | 14  | 0.8 | <5  | 99 *    | <5               | 1.8           | <0.2 | 25             | >10   | <2                                                                                                                                                                                                                                 | <0.01 | 0.02   | 2   | 0.05 | 709  | 0.03  | <1  | <5  | <5  | 21 *    | 28                 | 12              | 0.02  | 29  | 8 *             |
| 90.1 | 463    | 36  | 68  | 0.9 | 7   | 59 *    | <5               | 4.2           | 0.3  | 100            | 8.09  | <2                                                                                                                                                                                                                                 | 0.012 | 0.07   | <1  | 0.16 | 625  | 0.07  | <1  | <5  | <5  | <4 *    | 51                 | <10             | 0.05  | 20  | 82 *            |
| 90.1 | 464    | 6   | 2   | 0,4 | 104 | 1677 *  | <5               | 1.6           | <0.2 | 108            | 1.16  | <2                                                                                                                                                                                                                                 | <0.01 | 0.15   | 9   | 0.32 | 173  | 0.06  | <1  | <5  | <5  | <4 *    | 22                 | <10             | 0.1   | 57  | <4 *            |
| 90.2 | 8717   | 15  | 24  | 3.2 | <5  | 582 *   | 58               | 1.8           | 9.8  | 59             | 5.91  | 6                                                                                                                                                                                                                                  | <0.01 | 0.97   | 2   | 0.92 | 702  | 0.29  | <1  | <5  | 6   | <4 *    | 119                | 10              | 0.27  | 93  | 36 *            |
| 90.2 | 8718   | 11  | 2   | 0.2 | <5  | 1416 *  | <5               | 0.1           | 0.2  | 251            | 1.06  | <2                                                                                                                                                                                                                                 | <0.01 | 0.08   | 4   | 0.04 | 135  | 0.05  | <1  | <5  | <5  | <4 *    | 32                 | <10             | 0.02  | 3   | <4 *            |
| 90.3 | 470    | 23  | 4   | 0   | <5  | <10 *   | <5               | 0.2           | <0.2 | 240            | 7.27  | <2                                                                                                                                                                                                                                 | 0.016 | < 0.01 | 1   | 0.12 | 57   | <0.01 | <1  | <5  | <5  | <4 *    | 1                  | <10             | <0.01 | 2   | 5 *             |
| 90.3 | 8723   | 44  | 23  | 0.5 | <5  | <10 *   | <5               | 0.2           | 0.4  | 266            | 9.11  | <2                                                                                                                                                                                                                                 | <0.01 | 0.06   | 2   | 0.22 | 101  | 0.02  | 1   | <5  | <5  | <4 *    | 5                  | <10             | 0.03  | 13  | <4 *            |
| 90.3 | 8724   | 27  | 15  | 3.1 | 31  | 1529 *  | <5               | 2.3           | 0.5  | 80             | 5.35  | 7                                                                                                                                                                                                                                  | <0.01 | 0.6    | 5   | 1.12 | 242  | 0.2   | <1  | <5  | 15  | <4 *    | 85                 | <10             | 0.16  | 108 | <4 *            |
| 91   | 2845   | 24  | 3   | 0.5 | <5  | 882 *   | <5               | 2.4           | 1.5  | 231            | 1.19  | <2                                                                                                                                                                                                                                 | <0.01 | 0.13   | 3   | 0.22 | 299  | 0.02  | <1  | <5  | <5  | <4 *    | 46                 | <10             | <0.01 | 32  | <4 *            |
| 91   | 2846   | 32  | 7   | 1.7 | <5  | 2533 *  | <5               | 0.1           | 2.3  | 172            | 3.94  | 3                                                                                                                                                                                                                                  | <0.01 | 0.34   | 9   | 1.01 | 486  | 0.03  | <1  | <5  | 5   | <4 *    | 15                 | <10             | 0.02  | 133 | <4 *            |
| 91   | 2847   | 25  | 6   | 1   | <5  | 493 *   | 26               | 0.4           | 5.3  | 230            | 4.76  | <2                                                                                                                                                                                                                                 | 0.095 | 0.15   | 4   | 0.13 | 295  | 0.02  | <1  | <5  | <5  | <4 *    | 19                 | 47              | <0.01 | 30  | <4 *            |
| 91   | 3748   | 17  | 3   | 0.8 | <5  | 3177 *  | <5               | 0.4           | 1.1  | 197            | 1.86  | 2                                                                                                                                                                                                                                  | <0.01 | 0.27   | 3   | 0.5  | 233  | 0.04  | <1  | <5  | <5  | <4 *    | 14                 | <10             | 0.03  | 75  | <4 *            |
| 92.1 | 66     | 10  | 15  | 1.6 | <5  | 1160 *  | <5               | 0.6           | <0.2 | 17             | 3.55  | 1000105-0022000000                                                                                                                                                                                                                 | 0.041 | 0.32   | 8   | 0.83 | 777  | 0.15  | 4   | <5  | <5  | <4 *    | 58                 | <10             | 0.17  | 76  | <4 *            |
| 92.1 | 67     | 10  | 12  | 1.6 | <5  | 1585 *  | <5               | 0.8           | <0.2 | 13             | 3.18  | 5                                                                                                                                                                                                                                  | 0.032 | 0.43   | 11  | 0.96 | 388  | 0.22  | 5   | <5  | <5  | <4 *    | 87                 | <10             | 0.18  | 69  | <4 *            |
| 92.1 | 234    | 9   | 10  | 1.4 | <5  | 1584 *  | <5               | 0.8           | <0.2 | 11             | 2.59  | 4                                                                                                                                                                                                                                  | 0.018 | 0.4    | 12  | 0.86 | 363  | 0.2   | 3   | <5  | <5  | <4 *    | 70                 | <10             | 0.16  | 60  | <4 *            |
| 92.1 | 235    | 9   | 11  | 1.5 | <5  | 1728 *  | <5               | 0.8           | <0.2 | 11             | 2.58  | n and so                                                                                                                                                                                                                           | 0.013 | 0.41   | 12  | 0.88 | 369  | 0.21  | 4   | <5  | <5  | <4 *    |                    | <10             | 0.17  | 58  | <4 *            |
| 92.2 | 68     | 4   | 7   | 0.7 | <5  | 1626 *  | sitioe toscobrie | 0.5           | <0.2 | 6              | 2.93  | 3                                                                                                                                                                                                                                  | 0.015 | 0.18   | 9   | 0.44 | 253  | 0.05  | 3   | <5  | <5  | <4 *    | 53                 | 20000000 570530 | 0.09  | 63  | <4 *            |
| 92.2 | 69     | 4   | 6   | 0.7 | <5  | 1739 *  | <5               | 0.5           | <0.2 | 6              | 2.15  | 2                                                                                                                                                                                                                                  | 0.01  | 0.16   | 8   | 0.39 | 221  | 0.06  | 2   | <5  | <5  | <4 *    | 58                 | <10             | 0.08  | 47  | <4 *            |
| 92.2 | 236    | 5   | 7   |     | <5  | 1724 *  | <5               | 0.5           | <0.2 | 8.000000000005 | 1.98  | 1990 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | <0.01 | 0.18   | 8   | 0.46 | 244  | 0.05  | . 2 | <5  | <5  | <4 *    | 65                 | <10             | 0.09  | 43  | <4 *            |
| 92.2 | 237    | 3   | 7   | 0.4 | <5  | 1295 *  | <5               | 0.4           | <0.2 | a como near    | 10.77 |                                                                                                                                                                                                                                    | 0.011 | 0.09   | 10  | 0.21 | 345  | 0.03  | 8   | <5  | <5  | <4 *    | 26                 | <10             | 0.06  | 219 | 6 *             |
| 92.3 | 70     | 3   | 9   | 0.4 | <5  | 883 *   | <5               | o: 200-000-c- | 0.2  | 14             | 20.34 | N 20038 CODO                                                                                                                                                                                                                       | 0.022 | 0.06   | 17  | 0.17 | 483  | 0.02  | 11  | <5  | <5  | 4 *     | 200000-10752-005 h | <10             | 0.07  | 307 | 8 *             |
| 92.3 | 71     | 5   | 7   | 0.8 | <5  | 1720 *  | <5               | 0.7           | <0.2 | 7              | 2.4   |                                                                                                                                                                                                                                    | 0.013 | 0.19   | 10  | 0.47 | 269  | 0.04  | 2   | <5  | <5  | <4 *    | and the            | <10             | 0.1   | 53  | <4 *            |
| 92.3 | 238    | 2   | 14  | 0.2 | <5  | 279 *   | <5               | 0.3           | 0.5  | 23             | 54.89 | 0.0100000000000000000000000000000000000                                                                                                                                                                                            | 0.011 | 0.02   | 9   | 0.05 | 835  | 0.01  | 21  | <5  | <5  | 23 *    | 10000000000        | SUBSERVITURE    | 0.06  | 635 | 21 *            |
| 92.3 | 239    | 4   | 7   | 0.7 | <5  | 1742 *  | <5               | 0.6           | <0.2 | 7              | 2.78  | 3                                                                                                                                                                                                                                  | 0.012 | 0.15   | 9   | 0.39 | 237  | 0.04  | 2   | <5  | <5  | <4 *    | 69                 | <10             | 0.08  | 62  | <4 *            |

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ł l  $\left( \frac{1}{2} \right)$ 5 ł. 1  $w_{\rm cons} g^2$  Table A-2. Analytical results for reconnaissance investigation samples

| Map Sample | 3                          | Sample | a Sample      | Samp | le A                                               | u30 | * A        | g * (    | Cu * | Pb  | * Zn  | * Mo  |
|------------|----------------------------|--------|---------------|------|----------------------------------------------------|-----|------------|----------|------|-----|-------|-------|
| No. No.    | Location                   | Туре   | Size (ft)     | Site | Sample Description                                 | dqq | opt ppi    | n opt pp | m %  | ppm | % ppm | % ppm |
| R1 147     | Little Saginaw Bay         | G      | 0.1           | OC   | Barite in tan Is                                   | 30  | <0.        | 1 6      | 58   | 10  | 19    | 3     |
| R2 149     | Saginaw Bay                | G      | 2             | OC   | Limey gray ar                                      | <5  | <0.        | 1 4      | 43   | 13  | 109   | 12    |
| R2 150     | Saginaw Bay                | S      |               | RC   | Black carb fossils in gray sandy Is                | <5  | <0.        | 1 2      | 23   | 8   | 71    | 4     |
| R3 2375    | Kuiu Is, 3305 ft peak      | Rep    |               | RC   | Fel dikes w/ dissem po                             | <5  | <0.        | 1 :      | 31   | 8   | 79    | 5     |
| R3 2376    | Kuiu Is, 3305 ft peak      | G      |               | OC   | Fel dike w/ py & po                                | <5  | <0.        | 1 ;      | 38   | 4   | 8     | 6     |
| R3 9572    | Kuiu Is, 3305 ft peak      | Rep    | 4.7           | OC   | Fel int w/ dissem nodules of fg po                 | <5  | <0.        | 1 '      | 14   | 12  | 99    | 4     |
| R3 9573    | Kuiu Is, 3305 ft peak      | Rep    | 1.6           | oc   | Mafic dike w/ very fg po                           | <5  | <0.        | 1 :      | 39   | 8   | 74    | 3     |
| R3 9703    | Security Bay, W of         | Rep    | 6             | OC   | Fest fel dike w/ dissem po                         | 11  | 0.         | 6 '      | 16   | 44  | 209   | 3     |
| R4 2360    | Pinta Point area           | Rep    |               | oc   | Sil sc w/ fg dissem sulf                           | <5  | <b>O</b> . |          | 6    | 20  | 63    | 6     |
| R4 2361    | Pinta Point area           | G      |               | 00   | Gp sc w/ po & py                                   | <5  | 0.         | 3 (      | 35   | 22  | 86    | 2     |
| R4 2362    | Pinta Point area           | G      |               | OC   | Gp sc w/ dissem py                                 | <5  | <0.        | 1 16     | 66   | 19  | 297   | 8     |
| R4 2365    | Pinta Point area           | S      |               | OC   | Sulf-rich lens in gp sc                            | 29  | 0.         | 6 66     | 51   | 60  | 1595  | 86    |
| R5 3713    | Kake Rd, Pinta Pt area     | S      |               | ΤP   | Qz w/ fg py, po                                    | 9   | 0.         | 3 9      | 90   | 27  | 123   | 6     |
| R5 8673    | Kake Rd, Pinta Pt area     | Rep    |               | TP   | Sil volc w/ calc, very fg dissem po,py             | <5  | 0.         | 1 {      | 57   | 18  | 220   | 6     |
| R6 8674    | Kake Rd, Pinta Pt area     | S      |               | RC   | Skarn in hbl diorite                               | 8   | 0.         | 5 22     | 29   | 22  | 58    | <1    |
| R6 8675    | Kake Rd, Pinta Pt area     | S      |               | RC   | Skarn w/ py & trace cp                             | <5  | 1.         | 3 9'     | 18   | 10  | 66    | <1    |
| R7 3733    | Kake Tribal Rd 4300        | G      |               | TP   | Alt basalt w/ fg, dissem py, cp                    | 23  | 0.         | 4 164    | 15   | 20  | 106   | 5     |
| R8 3703    | Kake Tribal Rd 3000        | S      |               | TP   | Bedded sil ar & chert w/ lenses of py              | 12  | 1,         | 7 8      | 34   | 79  | 142   | 37    |
| R8 3704    | Kake Tribal Rd 3000        | S      |               | TP   | Py nodules in sil ar & chert                       | 7   | 2.         | 5 4      | 45   | 63  | 862   | 46    |
| R8 8669    | Kake Tribal Rd 3000        | S      |               | TP   | Black, sil, carb ar & chert w/ 1/8" bands of py    | 7   | 1.         | 5 5      | 57   | 61  | 164   | 30    |
| R8 8670    | Kake Tribal Rd 3000        | S      |               | TP   | Py nodules in fault br hosted in bedded ar & chert | 10  | 1.         | 7 4      | 18   | 34  | 65    | 15    |
| R9 3732    | Kake Tribal Rd 2130        | S      |               | TP   | Ar w/ knot of py                                   | 23  | <0.        | 1 8      | 35   | 12  | 103   | <1    |
| R10 3701   | Kake Tribal Rd 2000        | G      |               | TP   | Sil ar w/ lenses of fg py                          | 77  | 1.         | 97       | 76   | 43  | 232   | 11    |
| R10 3702   | Kake Tribal Rd 2200        | S      | li providence | 00   | Thinly bedded ar w/ py lenses                      | 43  | 1.         | 4 3      | 36   | 13  | 67    | 29    |
| R11 3706   | Kake Tribal Rd 3000        | G      |               | TP   | Qz w/ minor cp, py                                 | 7   |            | 1 161    | 0    | 16  | 63    | 2     |
| R12 8678   | Kake Tribal Rd 1000        | S      |               | TP   | Contorted graphitic ar w/ irregular knots of py    | 13  | 0,0        | 6 7      | 7    | 15  | 161   | 6     |
| R13 3718   | Kake Tribal Rd 7000        | S      |               | TP   | Patches & seams of py in ar & Is                   | 18  | 0.0        | 6 8      | 88   | 21  | 26    | 100   |
| R14 3731   | Gunnuk Ck tributary        | SS     |               |      | Ar outcrops in stream w/ ar, gw, & chert float     | <5  | <0.        | 1        | 97.  | 12  | 462   | <1    |
| R15 3719   | Kake Rd, Turn Mtn area     | G      |               | TP   | Black ar w/ seams of py                            | 13  | 0.         | 5 28     | 31   | 27  | 89    | 7     |
| R16 3712   | Kake Rd, Turn Mtn area     | G      | S. A. BARRES  | TP   | Ar w/ minor py                                     | 12  | 0.0        | 6 14     | 3    | 27  | 38    | 5     |
| R16 3721   | Kake Rd, Turn Mtn area     | G      |               | FL   | Sil ar w/ dissem cp, py                            | 24  | 1.9        | 9 159    | 9    | 15  | 8     | 3     |
| R16 3722   | Kake Rd, Turn Mtn area     | Rep    | 8             | OC   | Sil ar w/ fg py laminae & cg py lenses             | 39  | 1.         | 6 E      | 3    | 60  | 20    | 57    |
| R16 8680   | Kake Rd, Turn Mtn area     | G      |               | OC   | Sil ar w/ cg dissem py cubes                       | 88  | 1.8        | B 2      | 23   | 46  | 13    | 2     |
| R17 8679   | Kake Rd, Turn Mtn area     | G      |               | RC   | Sil, bedded ar w/ py seams along fractures         | 9   | 0.:        | 3 9      | 13   | 18  | 40    | <1    |
| R18 3709   | Kake Rd, Turn Mtn area     | G      |               | FL   | Qz w/ py & minor native copper                     | 20  | 1.0        | 5 194    | 2    | 5   | 63    | 1     |
| R19 3707   | Kake Rd, Turn Mtn area     | Rep    |               | TP   | Alt hbl di w/ py                                   | 6   | <0.1       | 1 28     | 18   | 7   | 42    | 3     |
| R19 3708   | Kake Rd, Turn Mtn area     | S      |               | TP   | Skarn mineralization in di w/ py                   | 11  | 0.2        | 2 51     | 8    | 26  | 83    | 2     |
| R19 8672   | Kake Tribal Rd 5000        | S      |               | TP   | Qz float w/ py                                     | 7   | 0.0        | 5 38     | 6    | 11  | 107   | 2     |
| R20 3720   | Kake Rd, Turn Mtn area     | G      |               | TP   | Gs w/ seams & dissem py, po                        | <5  | <0.1       | 17       | '9   | 8   | 106   | 3     |
| R21 3696   | Kake, USFS Rd 6304         | G      |               | TP   | Black carb ar w/ py lenses                         | 34  | 1.         | 1 5      | 6    | 115 | 405   | 67    |
| R21 8666   | Kake, USFS Rd 6304         | Rep    | 0.9           | TP   | Sil, bedded ar w/ py on fault surfaces             | 163 | 0.0        | 3 3      | 14   | 119 | 51    | 42    |
| R22 3697   | Kake, spur of USFS Rd 6304 | G      |               | TP   | Barite w/ minor cp in ar                           | 8   | 0.0        | 3 19     | 8    | <2  | 1337  | <1    |
| R22 3698   | Kake, spur of USFS Rd 6304 | S      |               | TP   | Ar to slate w/ lenses of py                        | 38  | 2.8        | 36       | 3    | 38  | 41    | 27    |
| R22 3699   | Kake, spur of USFS Rd 6304 | G      |               | RC   | Jasperoid w/ minor cp                              | 12  | <0.        | 1 3      | 5    | <2  | 14    | 2     |
| R22 8667   | Kake, spur of USFS Rd 6304 | C      | 4.4           | TP   | Sil bedded ar & chert w/ py in cubes & blebs       | <5  | 0.9        | 93       | 3    | 14  | 38    | 13    |
| R23 8668   | Kake, USFS Rd 6304         | Rep    |               | ŤΡ   | Alt zone w/ calc & limonite adj to fault br in ar  | <5  | <0.1       | 1 3      | 8    | 10  | 67    | 2     |

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| Map Sample Ni Co                                                                                                 | 11.12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| R3 2375 6 2                                                                                                      | 1001101010101010101010101010101010101010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| R3 2376 8 2                                                                                                      | 0.48 <5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| R3 9572 5 2                                                                                                      | 0.4 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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C. M. C. C. M. M. C. C. C. M. M. C. C. C. M. M. M. C. C. C. M. M.</li></ol> |                                                                                                                 | <20                          |
| R22 8667 21 4                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| R26 36<br>R27 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <b>R</b> 27 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 734                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Kake, USFS Rd 6030                                                                                              | G                                       |                                         | TP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Qz-calc vn w/ sulf                                       | <5                                      | 1998 - 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| 100 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul> <li>Analysis and the second se<br/>second second sec</li></ul> | Portage Bay, USFS Rd 6031                                                                                       | G                                       | <b>^</b> F                              | TP                                                                                                                                                                                                                                                                       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| R30 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| R31 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <b>R31</b> 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | sourcestance assess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 832 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 000000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| R33 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| ₹34 86<br>₹35 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         | 15<br>5                            | 25<br>10                                                                                                        | 14                                     |          |
| 9000.000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                          | 96201260126662                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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vis searcond oo                                                                                            | per ner constant constants             | <1       |
| (47 90<br>(48 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Helen S Mine area                                                                                               | G                                       | 4                                       | OC                                                                                                                                                                                                                                                                                     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I<br>I.1                             | 11<br>170                          | 15<br>4                                                                                                         | 82<br>98                               | 5<br>2   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 149 20<br>150 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                | an na Ear ann an a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mitkof Is, USFS Rd 6246                                                                                         | C                                       | 1.5                                     | TP                                                                                                                                                                                                                                                                                     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<1<br>11                                                                                                        | 20                                     | 18       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 998 FE 150 STUD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mitkof Is, USFS Rd 6246                                                                                         | G                                       | 1.9                                     | OC ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Qz vn w/ py                                              | <5                                      | 2010/01/12/12/2010/12/12/2010/02                                                                                                      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                                                                                                        | ю<br>61                                | 22<br>49 |
| 30 20<br>851 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ene energe a conserva-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mitkof Is, USFS Rd 6245                                                                                         | G                                       | 0.4                                     | RC                                                                                                                                                                                                                                                                                     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                                                                                                        | 8                                      | 49       |
| 31 40<br>852 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mitkof Is, USFS Rd 6282                                                                                         | G                                       | 0.4                                     | RC                                                                                                                                                                                                                                                                                     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| warmen and a second second second                                                                                                                                                                                                                                                                                                                                                                                                                                               | carrier and a second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Map        | Sample       | Ni       | Со                                      | Al               | As          | Ba *           | Bi        | Ca                        | Cd                                              | Cr          | Fe                     | Ga                                                                                                             | Hg                             | K      | La                                      | Mg              | Mn                                                                                                               | Na                                                                                                               | Nb       | Sb       | Sc                                                 | Sn '       | • Sr                                     | Te                                           | Ti                                                                                                             | V               | W * Pt Pd       |
|------------|--------------|----------|-----------------------------------------|------------------|-------------|----------------|-----------|---------------------------|-------------------------------------------------|-------------|------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------|--------|-----------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------|----------|----------------------------------------------------|------------|------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| No.        | No.          | ppm      | ppm                                     | %                | ppm         | ppm xrl        | ppm       | %                         | ppm j                                           | pm          | %                      | ppm                                                                                                            |                                | %      | ppm                                     | %               | ppm                                                                                                              | %                                                                                                                | ppm      | ppm      | ppm                                                | ppm x      | rf ppm                                   | ppm.                                         | %                                                                                                              | ppm             | ppm xrf ppb ppb |
| R24        | 3735         | 8        | 2                                       | 0.16             | 85          | 203 *          | <5        | 3.57                      | 1.5                                             | 39          | 20.08                  | <2                                                                                                             |                                | 0.04   | <1                                      | 3.35            | 581                                                                                                              | <0.01                                                                                                            | <1       | <5       | <5                                                 | <20        | 32                                       | <10                                          | <0.01                                                                                                          | 4               | <20             |
| R25        | 3734         | 3        | 3                                       | 0.14             | <5          | 413 *          | <5        | 19.7                      | 0.6                                             | 66          | 2.24                   | <2                                                                                                             |                                | 0.02   | <1                                      | 2.23            | 3701                                                                                                             | <0.01                                                                                                            | <1       | <5       | <5                                                 | <20        | 250                                      | <10                                          | <0.01                                                                                                          | 15              | <20             |
| R26        | 3683         | 37       |                                         | 0.31             | <5          | 2926 *         | <5        | 3.13                      | 0.7                                             |             | 1.93                   | <2                                                                                                             | 0.32                           | 0.14   | 2                                       | 0.27            |                                                                                                                  | 0.02                                                                                                             | <1       | <5       | <5                                                 | <4 *       | 203                                      |                                              |                                                                                                                | 10              | <4 *            |
| R27        | 3676         | 132      | 35                                      | 0.7              | 6           | 2580 *         | <5        | 0.92                      | 0.4                                             | 57          | 5.1                    | <2                                                                                                             | <0.01                          | 0.25   | 9                                       | 0.15            | 167                                                                                                              | 0.02                                                                                                             | 1        | <5       | <5                                                 | <4 *       | 83                                       | 0.0000000000000000000000000000000000000      | 000000000000000000000000000000000000000                                                                        | 31              | <4 *            |
| R28        | 230          | 9        | <1                                      | 0.01             | <5          | 24 *           | <5        | 0.02                      |                                                 | 157         | 0.2                    | a sanaran                                                                                                      | an an angela                   | <0.01  | <1                                      | 0.02            | 25                                                                                                               | earnes and a                                                                                                     | <1       | <5       | <5                                                 | <20        | <1                                       | annan ann                                    | aaaniiniiniin                                                                                                  | 1               | <20             |
| R28        | 231          | 11       | enter tatas s                           | 0.22             | <5          | 70 *           | <5        | 3.48                      | <ul> <li>c) (00000) = 000000 (c) (c)</li> </ul> | 138         | 1.39                   | 5-COLOC CO15555                                                                                                | 0.015                          | 0.02   | <1                                      | 0.25            | 441                                                                                                              | 0.01                                                                                                             | <1       | <5       | <5                                                 | <20        | 77                                       | 0.000.000.000000                             | union de la companya | 17              | <20             |
| R29        | 2358         | 10       | <1                                      | 0.04             | <5          | 2              | <5        | 0.01                      |                                                 | 353         | 0.39                   |                                                                                                                |                                | < 0.01 | <1                                      | 0.02            | an a                                                                         | and the second | <1       | <5       | <5                                                 | <20        | 1                                        | sognations.                                  | an a                                                                       | 2               | <20             |
| R30        | 59           | 47       | aaraa ( <b>b. 6</b> 9. aa               | 2.33             | 68          | 468 *          | <5        | 10                        | 0.4                                             | 42          | 10                     |                                                                                                                | 0.052                          | 0.04   | 13                                      | 2.05            | canada a serence a consecutor                                                                                    | 0.01                                                                                                             | 1        | <5       | 2000400703000000                                   | <20        |                                          | <10                                          |                                                                                                                | 109             | <20             |
| R31<br>R31 | 56<br>57     | 44<br>59 |                                         | 6.98<br>6.05     | 10<br>33    | >20000 *       | <5<br><5  | 1.3<br>2.61               | 0.5<br>0.3                                      | 80<br>39    | 8.6<br>9.47            | 02.0 1010110                                                                                                   | 0.103                          | 0.05   | <1<br>/1                                | 0.47<br>1.19    | 246<br>688                                                                                                       | 0.02                                                                                                             | 5<br>3   | <5<br><5 |                                                    | <20<br><20 | 2<br>2                                   | and a second second                          | 0.02<br><0.01                                                                                                  | 34<br>12        | <20<br><20      |
| R31        | 229          | ວອ<br>14 | 13<br>1                                 | 0.81             |             | 19527 *        | _>⊃<br><5 | 7.47                      | 0.3                                             | 39<br>83    | 9.47                   | 1000000000000000                                                                                               | ana ang kabupatèn kabupatèn sa | <0.09  | 2                                       | 4.12            | 226                                                                                                              | <0.01                                                                                                            | 3<br>5   | -ə<br><5 | 999939 <del>6</del> 777                            | ~20<br><20 | 2<br>149                                 | a constante constante de                     | <0.01                                                                                                          | ۲ <u>۲</u><br>6 | <20             |
| R32        | 58           | 15       | a an sur                                | 0.03             | <5          | 583 *          | ~5<br><5  | 0.65                      | <0.2                                            |             | 0.34                   |                                                                                                                | 0.108                          |        | <1                                      | second care     | 41                                                                                                               | 0.01                                                                                                             | <1       | ~5<br><5 |                                                    | <20        |                                          | n tomos conserve i                           | <0.01                                                                                                          | <1              | <20             |
| R33        | 55           | 64       |                                         | 2.83             | <5          | 252 *          | -0<br><5  | 1.12                      |                                                 | 130         | 7.37                   |                                                                                                                | 0.413                          | 0.03   | 4                                       | 1.96            | 857                                                                                                              | 0.05                                                                                                             | 3        | <5       | 5                                                  | -24        | 23                                       |                                              | 0.6                                                                                                            | 179             | <20             |
| R33        | 228          | 29       |                                         | 1.58             | <5          | 444 *          | <5        | 1.31                      |                                                 | 136         | 3,48                   |                                                                                                                | 0.896                          | 0.02   | 2                                       | 1.34            | 542                                                                                                              | 0.07                                                                                                             | 3        | <5       | <5                                                 |            | 19                                       | a tata a sa | 0.32                                                                                                           | 82              | <20             |
| R34        | 8651         | 11       | 000000000000000000000000000000000000000 | 0.06             | 7           | 127 *          | <5        | 0.04                      | crossconsee warries                             | 250         | 0.35                   |                                                                                                                |                                | < 0.01 | <1                                      | 0.01            | 32                                                                                                               | 0.01                                                                                                             | <1       | <5       | 2000/00/00/2002                                    | <20        | 4                                        | 600000000000000000000000000000000000000      | 000000000000000000000000000000000000000                                                                        | 1               | <20             |
| R35        | 49           | 9        | 8                                       | 0.76             | 15          | 635 *          | <5        | 3.95                      | 0.6                                             | 186         | 2.27                   | <2                                                                                                             | 0.15                           | 0.04   | 4                                       | 0.83            | 522                                                                                                              | 0.04                                                                                                             | 2        | <5       | 6                                                  | <20        | 201                                      | <10                                          | <0.01                                                                                                          | 55              | <20             |
| R36        | 459          | 7        | 2                                       | 0.49             | <5          | 574 *          | <5        | 6.46                      | <0.2                                            | 144         | 1.22                   | <2                                                                                                             | <0.01                          | 0.07   | <1                                      | 0.45            | 1617                                                                                                             | <0.01                                                                                                            | <1       | <5       | <5                                                 | <20        | 566                                      | <10                                          | <0.01                                                                                                          | 12              | 574 *           |
| R37        | 457          | 34       | 29                                      | 2.89             | 6           | 554 *          | <5        | 3                         | 0.2                                             | 90          | 8.46                   | 4                                                                                                              | <0.01                          | 0.22   | 2                                       | 3.15            | 1957                                                                                                             | 0.03                                                                                                             | <1       | <5       | 5                                                  | <20        | 52                                       | 14                                           | 0.2                                                                                                            | 90              | 554 *           |
| R37        | 458          | 66       |                                         | 2.12             | 32          | 655 *          | <5        | 1.44                      | <0.2                                            | 81          | 6.92                   | 4                                                                                                              | 0.014                          | 0.28   | 5                                       | 1.65            | 692                                                                                                              | 0.06                                                                                                             | <1       | <5       | <5                                                 | <20        | 78                                       | <10                                          | 0.2                                                                                                            | 74              | 655 *           |
| R37        | 8711         | 24       |                                         | 1.35             | <5          | 289 *          | <5        | 1.13                      | 1996 (1996 (1997 (1997 (1997                    | 94          | 2.64                   | er 638-65.60                                                                                                   | <0.01                          | 0.16   | 6                                       | 1               | 343                                                                                                              | 0.05                                                                                                             | <1       | <5       | 0.600.00000000000                                  | <20        | 102                                      |                                              | 0.22                                                                                                           | 51              | 289 *           |
| R38        | 9684         | 25       |                                         | 1.09             | <5          | 914 *          | <5        | 0.86                      | <0.2                                            | 71          | 2.79                   |                                                                                                                | 0.012                          | 0.33   | 2                                       | 0.65            | 295                                                                                                              | 0.03                                                                                                             | <1       | <5       |                                                    | <20        | 47                                       |                                              | 0.23                                                                                                           | 44              | <20             |
| R38        | 9685         | 21       | 2022040303                              | 2.38             | <5<br>-     | 761 *          | <5        | 0.6                       | <0.2                                            | 59          | 5.25                   |                                                                                                                | 0.088                          | 0.17   | 20021-000-000000-0                      | 1.17            |                                                                                                                  | 0.04                                                                                                             | 1        | <5       | 20.000.00T.000                                     | <20        | 42                                       |                                              | 0.21                                                                                                           | 43              | <20             |
| R39        | 352          | 53       |                                         | 3.05             | <5          | 405 *          | <5        | 2.85                      | <0.2                                            | 99          | 5.41                   |                                                                                                                | 0.018                          | 0.04   |                                         | 2.08            |                                                                                                                  | 0.06                                                                                                             | 2        | <5       | 10                                                 | <20        | 21                                       | a successiones                               | 0.44                                                                                                           | 133             | <20             |
| R39        | 353          | 69       |                                         | 1.52             | 31          | 836 *          | <5        | 0.52                      | 1.6                                             | 79          | 5.44                   | consequences and a second                                                                                      | 0.542                          | 0.05   | 0.00.00000000.000                       | 1.12            | 201220220202020202                                                                                               | 0.01                                                                                                             | 7        | <5       | 2000-20040-2-s                                     | <20<br><20 | 15                                       | 000000-000000                                | 900-970-9694 (PP)                                                                                              | 94              | <20             |
| R40<br>R40 | 3816<br>3819 | 18<br>17 |                                         | 0.05             | <5<br>90    | 55 *<br>662 *  | <5<br><5  | 0.41                      | 0.2<br><0.2                                     | 219         | 0.7<br>7.79            |                                                                                                                | 0.095                          | <0.01  |                                         | 0.19<br>0.01    | 165<br>54                                                                                                        | <0.01<br><0.01                                                                                                   | <1<br><1 | <5<br><5 |                                                    | <20        | 3                                        | an a     | <0.01<br><0.01                                                                                                 | 4               | 55 *<br>662 *   |
| R40        | 3820         | 12       | 100000000000000                         | 0.03             | 90<br>9     | 421 *          |           | <0.00                     | 1630 G 106330 - 400                             | 304         | 0.65                   | 200203200-0                                                                                                    | 0.023                          | 0.02   | 0.0000000000000000000000000000000000000 | <0.01           | 35                                                                                                               | <0.01                                                                                                            | <1       | ~0<br><5 | 02,22,23,24,54,54,54,54,54,54,54,54,54,54,54,54,54 | <20        | 2                                        | 2010/2006/250                                | 27636220225300000                                                                                              | 4               | 421 *           |
| R41        | 9648         | 25       | 18                                      | 1.5              | 10          | 213 *          | <5        | 4.79                      |                                                 | 112         | 3.82                   |                                                                                                                | 0.023                          | 0.02   |                                         | 1.48            | 584                                                                                                              | 0.09                                                                                                             | <1       |          |                                                    | <20        | 178                                      | n ana na baba                                | 0.11                                                                                                           | 114             | <20             |
| R42        | 24           | 31       | Sherrardi na                            | 0.71             | 38          | 236 *          | <5        | C.XII 86, 60 <b>5</b> 000 | <0.2                                            | 76          | 4.93                   |                                                                                                                | 0.298                          | 0.07   | 2                                       | 3.52            | 832                                                                                                              | 0.02                                                                                                             | 4        | <5       | 8. C.          | <20        |                                          | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~      | <0.01                                                                                                          | 125             | <20             |
| R42        | 25           | 48       |                                         | 0.79             | 74          | 446 *          | <5        | a a a considera a s       | <0.2                                            | 84          | 5.42                   |                                                                                                                | 0.09                           | 0.05   | 4                                       | 4.39            | and the second | 0.01                                                                                                             | 3        | <5       |                                                    | <20        |                                          |                                              | <0.01                                                                                                          | 90              | <20             |
| R42        | 26           | 20       | 2                                       | 0.25             | <5          | 771 *          | <5        | 5.99                      | <0.2                                            | 165         | 1.36                   |                                                                                                                | 0.022                          | 0.02   | <1                                      | 3.1             | 573                                                                                                              | 0.01                                                                                                             | 3        | <5       |                                                    | <20        | 445                                      |                                              | <0.01                                                                                                          | 15              | <20             |
| R42        | 210          | 17       | 7                                       | 0.37             | 19          | 183 *          | <5        | 10                        | <0.2                                            | 54          | 3.76                   | <2                                                                                                             | 0.434                          | 0.05   | 2                                       | 4.63            | 713                                                                                                              | 0.02                                                                                                             | 4        | 10       | 10                                                 | <20        | 360                                      | <10                                          | <0.01                                                                                                          | 79              | <20             |
| R43        | 186          | 11       | 9                                       | 1.37             | 14          | 53             | <5        | 0.4                       | 0.2                                             | 18          | 2.9                    | <2                                                                                                             | 0.067                          | 0.12   | 18                                      | 0.53            | 452                                                                                                              | 0.22                                                                                                             | <1       | <5       | <5                                                 | <20        | 30                                       | <10                                          | 0.06                                                                                                           | 48              | <20             |
| R44        | 187          | 22       | 26                                      | 2.62             | 11          | 43             | <5        | 0.5                       | 0.3                                             | 19          | 6.98                   | 2                                                                                                              | 0.04                           | 0.1    | 24                                      | 1.22            | 2836                                                                                                             | 0.25                                                                                                             | <1       | <5       | <5                                                 | <20        | 54                                       | <10                                          | 0.13                                                                                                           | 76              | <20             |
| R45        | 182          | 17       | 20                                      | 2.38             | 18          | 78             | <5        | 0.32                      | 0.5                                             | 16          | 5.28                   | 3                                                                                                              | 0.051                          | 0.1    | 18                                      | 0.93            | 3054                                                                                                             | 0.14                                                                                                             | 2        | <5       | <5                                                 | <20        | 59                                       | <10                                          | 0.12                                                                                                           | 58              | <20             |
| R45        | 183          | 16       | con su comos                            | 2.38             | 42          | 45             | <5        | 0.3                       | 0.2                                             | 17          | 9.45                   | 4                                                                                                              | 0.07                           | 0.09   | 18                                      | 0.000.000000000 | 334                                                                                                              | 0.21                                                                                                             | 2        | <5       | 2003222222222                                      | <20        | 60                                       |                                              | 0.1                                                                                                            | 73              | <20             |
| R45        | 184          | 16       |                                         | 2.49             | 9           | 60             | <5        | 0.35                      | 0.3                                             | 18          | 3.82                   | a contractor de la contra | 0.081                          | 0.07   | 20                                      | 0.78            | an a                                                                         | 0.14                                                                                                             | 1        | <5       |                                                    | <20        | ntetotore service attain                 | <10                                          | 0.1                                                                                                            | 52              | <20             |
| R46        | 9632         | 3        |                                         | 0.46             | <5          | 28             | <5        | 0.25                      | <0.2                                            | 8           | 0.52                   | 00.0.00.00                                                                                                     | 0.034                          | 0.05   | 8                                       | 0.16            | 77                                                                                                               | 0.05                                                                                                             | <1       | <5       | 08.00002008                                        | <20        | 19                                       | 0.0000000000000000000000000000000000000      | 0.07                                                                                                           | 14              | <20             |
| R47        | 9633         | 11       |                                         | 1.68             | 15          | 43             | <5        | 0.43                      | < 0.2                                           | 17          | 3.99                   |                                                                                                                | 0.088                          | 0.09   | 15                                      | 0.68            | 549                                                                                                              | 0.13                                                                                                             | 2        | <5       |                                                    | <20        | 55                                       | and the second second                        | 0.13                                                                                                           | 63              | <20             |
| R48        | 282          | 51       | 30 <u>-20</u> 42-10                     | 0.88             | 6           | 449 *          | <5        | 6.9                       | 555566-65-65555                                 | 108         | 9.23                   |                                                                                                                | 0.184                          | 0.04   | 4                                       | 3.98            |                                                                                                                  | 0.02                                                                                                             | <1       | <5       | 2010220055775                                      | <20        | 90                                       | <10                                          | <0.01                                                                                                          | 210             | <20             |
| R49        | 2638         | 21       | oo ah ta ay a                           | 0.09             | 58<br>~E    | 10             | <2        | 4.75                      | <.5                                             | elon encolo | de transmissione marce | <10                                                                                                            | 1.81                           | 0.01   | <10                                     | 0.06            | 340                                                                                                              | <0.01                                                                                                            | ~4       | 12       | 2<br>~F                                            | 200        | 69                                       | -40                                          | <.01                                                                                                           | 10              | <10             |
| R50<br>R50 | 429<br>2839  | 4<br>5   | 00.0000000000                           | 0.08             | <5<br><5    | <10 *<br>760 * | <5<br><5  | 0.3<br>3.1                | <0.2<br><0.2                                    | 126<br>41   | 0.83                   |                                                                                                                | 0.019                          | 0.01   | <1<br><1                                | 0.03            | 161                                                                                                              | 0.03                                                                                                             | <1       | <5<br><5 | **********                                         | <20        | 10                                       | n 2006 2007 2008 20                          | <0.01                                                                                                          | 4               | <20<br><20      |
| R50<br>R51 | 405          | с<br>7   | corporations,                           | 0.76             | <5<br><5    | 209 *          | <5        | 0.62                      | ana sa costa con a                              | 41<br>230   | 3.32<br>0.84           | e accessor as a s                                                                                              | <0.027                         | 0.39   | <1<br><1                                | 0.52            | 1065                                                                                                             | 0.05                                                                                                             | 6<br>2   | <5<br><5 |                                                    | <20<br><20 | 117<br>16                                | <10<br><10                                   | 0.07                                                                                                           | 60<br>15        | <20<br><20      |
| R52        | 405          | 15       |                                         | 2.24             | ຸວ<br><5    | 1212 *         | <5<br><5  | 0.62                      | 0.2                                             | 230<br>89   | 4.52                   | ~2                                                                                                             | ~0.01<br>0.01                  | 0.09   | ~1<br>4                                 | 1.82            | 932                                                                                                              | 0.05                                                                                                             | 11       | ຸ<br><5  | 000000000000000000000000000000000000000            | <20        | 24                                       | <10                                          | 0.01                                                                                                           | 110             | <20             |
| R52        | 2822         | 33       | 24                                      | 1.4              | <5          | 1485 *         | ~5<br><5  | 0.52                      | 0.2                                             | e Terre e e | 4.36                   | annan ana                                                                                                      | 0.011                          | 0.61   |                                         | cardenser as    | 613                                                                                                              | 0.08                                                                                                             | 8        | <5       |                                                    | <20        | ana anta ana ana ana ana ana ana ana ana | <10                                          | 0.11                                                                                                           | 82              | <20             |
| * \UZ      | LVAL         | <b></b>  | T                                       | a di <b>n</b> ti | arit anti-u | 1700           | o         | Y.YC                      |                                                 |             |                        | ~~                                                                                                             | v.v   1                        | u.u i  | - <b>1</b>                              | 1,14            | U 10                                                                                                             | U.U1                                                                                                             | v        |          |                                                    | 120        | IJ                                       | -10                                          | 0.07                                                                                                           | υL              | 74V             |

| Map | Sample |                           | Sample | Sample                          | Sample |                                                    | Au30 | * A                            | g *                                     | Cu *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Pb * Z                                    | 'n * Mo                                             |
|-----|--------|---------------------------|--------|---------------------------------|--------|----------------------------------------------------|------|--------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|
| No. | No.    | Location                  | Туре   | Size (ft)                       | Site   | Sample Description                                 | ppb  | opt ppi                        | n opt p                                 | om % pr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | om % pp                                   | m % ppm                                             |
| R53 | 403    | Mitkof Is, USFS Rd 6245   | S      |                                 | RC     | Fest qz w/ po blebs                                | <5   | <0.                            | 1                                       | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | 9 1                                                 |
| R54 | 404    | Mitkof Is, USFS Rd 6245   | G      |                                 | RC     | Qz vn w/ blebs & cubes of py                       | <5   | <0.                            | 1                                       | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 1                                       | 4 2                                                 |
| R54 | 2821   | Mitkof Is, USFS Rd 6245   | G      |                                 | OC     | Shear zone w/ py                                   | <5   | 0.                             | 3                                       | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 8                                      | 4 3                                                 |
| R55 | 283    | Zarembo Is, USFS Rd 6590  | S      | 0.3                             | TP     | Fest rhyolite                                      | 16   | <0.                            | 1                                       | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23 2                                      | 1 2                                                 |
| R55 | 9649   | Zarembo Is, USFS Rd 6590  | G      |                                 | TP     | Alt int w/ qz vns & py                             | 96   | 5.                             |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 29 2                                      | 0 27                                                |
| R56 | 292    | Zarembo Is, USFS Rd 6592  | С      | 0.4                             | OC     | Fest qz & green sc w/ py                           | 7    | 0.                             | 2                                       | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 1                                       | 6 <1                                                |
| R56 | 9652   | Zarembo Is, USFS Rd 6592  | Rep    | 1                               | OC     | Shear w/ py in alt volc                            | 23   | 0.                             | 4                                       | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15 9                                      | 5 3                                                 |
| R57 | 323    | Zarembo Is, USFS Rd 52022 | S      |                                 | RC     | Hbl bt granite w/ sulf replacing mafics            | 28   | <0.                            | 1                                       | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 14 4                                      | 9 2                                                 |
| R57 | 324    | Zarembo Is, USFS Rd 52022 | S      | 0.4                             | OC     | Alt sericitic granite w/ py                        | 12   | <0.                            | 1                                       | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 94                                        | -0 <1                                               |
| R57 | 9670   | Zarembo Is, USFS Rd 52022 | Rep    |                                 | OC     | Heavily weathered fest int                         | 13   | <0.                            | 1                                       | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13 8                                      | 2 <1                                                |
| R58 | 302    | Zarembo Is, USFS Rd 6590  | G      |                                 | FL     | Banded gs w/ seams & dissem blebs of py            | 27   | <0.                            | 1                                       | 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 33 22                                     | 2 6                                                 |
| R58 | 9659   | Zarembo Is, USFS Rd 6590  | G      |                                 | FL     | Sil rhyolite w/ py seams                           | 14   | 0.                             | 51                                      | 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 41 25                                     | 4 7                                                 |
| R59 | 290    | Zarembo Is, USFS Rd 6590  | G      |                                 | TP     | Fest gs w/ sulf                                    | 9    | 0.                             | 1 1                                     | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 5                                       | 4 1                                                 |
| R60 | 289    | Zarembo Is, USFS Rd 6590  | S      | 0.2                             | TP     | Fest, qz monzonite w/ py                           | 9    | <0.                            | 1                                       | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20 3                                      | 4 4                                                 |
| R61 | 287    | Zarembo Is, USFS Rd 6593  | G      | 0.8                             | TP     | Vuggy fest qz vn                                   | 8    | <0.                            | 1                                       | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 1                                       | 4 1                                                 |
| R61 | 9650   | Zarembo Is, USFS Rd 6593  | G      |                                 | TP     | Qz vn in slate                                     | 8    | 0.                             | 2                                       | 307777777777777777777777777777777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           | 2 2                                                 |
| R62 | 285    | Zarembo Is, USFS Rd 52021 | G      | 0.3                             | RC     | Vuggy qz vn w/ py blebs                            | 9    | <0.                            |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           | 5 <1                                                |
| R63 | 284    | Zarembo Is, USFS Rd 6590  | G      | 0.3                             | OC     | Phyllite w/ py blebs                               | 18   | <0.                            |                                         | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 11                                      |                                                     |
| R64 | 286    | Zarembo Is, USFS Rd 6590  | С      | 0.7                             | OC     | Fest sil shear w/ py in slate                      | 15   | <0.                            |                                         | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | 62                                                  |
| R65 | 288    | Zarembo Is, USFS Rd 6597  | G      | 0.6                             | TP     | Fest qz vn w/ py                                   | 65   | 0.                             | 3                                       | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25 5                                      | 7 2                                                 |
| R66 | 297    | Zarembo Is, USFS Rd 6585  | S      |                                 | RC     | Fest andesite w/ blebs & banded fg py              | 267  | 0.                             |                                         | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                         | 3 <1                                                |
| R66 | 9655   | Zarembo Is, USFS Rd 6585  | Rep    |                                 | RC     | Alt andesite w/ py & chalcedony in vugs            | 116  | 1.                             | 000000000000000000000000000000000000000 | 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 14                                      | 8999999120050000000000000000000                     |
| R67 | 9653   | Zarembo ls, USFS Rd 6587  | G      |                                 | RC     | Fest, sil, gossany float                           | 44   | 0.                             |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 31 7                                      |                                                     |
| R68 | 294    | Zarembo Is, USFS Rd 6594  | С      | 0.5                             | 00     | Fest rhyolite w/ fg py                             | 7    | 0.                             | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 21 11                                     | 16                                                  |
| R69 | 1      | Elephant Nose, E of       | Rep    | 2                               | RC     | Fest qz vn                                         | <5   | <0.                            |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           | 6 2                                                 |
| R69 | 2      | Elephant Nose, E of       | С      | 1.5                             | 00     | Qz vn                                              | <5   | <0.                            |                                         | dianalago: processor as as as see.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20100-2010-2010-0012-10-2010-0000-00-00-0 | 21                                                  |
| R69 | 3      | Elephant Nose, E of       | SC     | 6@0.5                           | OC     | Qz vn                                              | <5   | <0.                            |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           | 63                                                  |
| R69 | 4      | Elephant Nose, E of       | G      | 0.5                             | 00     | Qz , cal, sericite lens in vn w/ limonite, py & ml | <5   | <0.                            | x - 200 x - 201 200 200 00 - 766 200 0  | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1227 <b>13</b> 19202222000000, 9200900000 | 8 3                                                 |
| R69 | 5      | Elephant Nose, E of       | Rep    | 1                               | OC     | Irregular qz vn                                    | <5   | <0.                            |                                         | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | 7 4                                                 |
| R69 | 6      | Elephant Nose, E of       | С      | 0.7                             | 00     | Qz vn w/ ml                                        | <5   | <0.                            |                                         | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1900 (M. 1907) (M. 1906) (M. 1997)        | 2 2                                                 |
| R69 | 7      | Elephant Nose, E of       | SS     | n a stadio na bila tana tanan   |        | Stream in slate & granite float                    | <5   | 0.                             |                                         | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 12                                      |                                                     |
| R69 | 203    | Elephant Nose, E of       | Rep    | 2.5                             | 00     | Qz vn                                              | <5   | O.                             |                                         | 0.01000-00-0700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4777777888888877777789                    | 93                                                  |
| R69 | 201    | Elephant Nose             | С      | 1.5                             | 00     | Qz vn                                              | <5   | 0.                             |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11 1                                      |                                                     |
| R69 | 202    | Elephant Nose             | RC     | 10                              | 00     | Irregular qz lenses                                | <5   | <0.                            | 5.00003983.00000.0000                   | 0.0000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           | 92                                                  |
| R70 | 2618   | Wedge Point               | Rep    | 1.3                             | oc     | Qz vn w/ sparse py                                 | <5   | <0.:                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 68 21                                     | CALVES AND ADDRESS AND ADDRESS AND                  |
| R70 | 2619   | Wedge Point               | S      |                                 | RC     | Hn slate w/ py                                     | <5   | 0                              |                                         | 590336000000 vitra 30000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16 17                                     | SARA SINCE PRODUCTION COST CLOSE                    |
| R71 | 460    | Etolin Is, USFS Rd 51009  | G      | 0.6                             | TP     | Sil int w/ po, cp                                  | 12   | 0.                             | A.A.C                                   | and the second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20 7                                      |                                                     |
| R71 | 8712   | Etolin Is, USFS Rd 51009  | S      |                                 | RC     | Dioritic dike w/ fg po intruding marble            |      | 199, da na sana sa sa sa sa sa | 친구가 이 가지 아파지 않는 것                       | 1949, A. 1999, A. 1999, A. 1997, A. 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 34 17                                     | en gebruik gebruik waarde en de de eerste regeleer. |
| R72 | 477    | Etolin Is, USFS Rd 6544   | G      | 0.3                             | TP     | Fest, sil metaseds w/ fg py                        | <5   | <0.                            | -<br>                                   | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 4                                       |                                                     |
| R72 | 478    | Etolin Is, USFS Rd 6544   | C      | 0.4                             | 00     | Sil, fest, felsic int w/ py along shears           | 22   | 0                              |                                         | 340.0894.00000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11 2                                      | 5 g - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2         |
| R73 | 8713   | Etolin Is, USFS Rd 6540   | Rep    | t is a contraction for a second | RC     | Andesite w/ dissem po                              | <5   | <0.                            |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11 7                                      |                                                     |
| R74 | 8714   | Etolin Is, USFS Rd 6540   | S      | ALC: COMPANY                    | TP     | Rhyolite w/ py in small fractures                  | <5   | 0.:                            | ecos contesnicomecnosus.                | 980350975778859879969879768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 27 14                                     | 1566 CB & CRUSPUL DR. (2010) (\$785)                |
| R75 | 8730   | Etolin Is, USFS Rd 51540  | RC     |                                 | TP     | Fest rhyolite w/ dissem po                         | <5   | <0.                            |                                         | and the second s | 23 9                                      |                                                     |
| R76 | 8722   | Etolin Is, USFS Rd 51540  | Rep    | 0.5                             | RC     | Fest qz vn w/ po in ar                             | 6    | 2.                             | 2262221282222222222222222222            | 9.222992220-2228222000 A A A A A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 77 39                                     | eno. en: ecoso eucoseco na gont gal 1633.           |
| R77 | 461    | Etolin Is, USFS Rd 51581  | C      | 0.5                             | TP     | Qz vn                                              | <5   | <0.1                           |                                         | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 3                                       |                                                     |
| R78 | 8715   | Etolin Is, USFS Rd 6539   | Rep    |                                 | ТР     | Pink to gray, mg, fel int w/ gray sulf             | <5   | 0.:                            | 2                                       | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 27 17                                     | 8 5                                                 |

•

| Мар        | Sample      | Ni       | Co                                                                                                               | A                                       | As        | Ва         | * Bi                                                                                                             | Са                   | Cd           | Cr                | Fe          | Ga                                           | Hg                                          | ĸ      | La                                       | Mg           | Mn                    | Na              | Nb       | Sb       | Sc               | Sn *                                         | Sr               | Te                                         | Ti                                      | V                                          | W          |                                                  |
|------------|-------------|----------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|------------|------------------------------------------------------------------------------------------------------------------|----------------------|--------------|-------------------|-------------|----------------------------------------------|---------------------------------------------|--------|------------------------------------------|--------------|-----------------------|-----------------|----------|----------|------------------|----------------------------------------------|------------------|--------------------------------------------|-----------------------------------------|--------------------------------------------|------------|--------------------------------------------------|
| No.        | No.         | ррт      | ppm                                                                                                              | %                                       | ppm       | ppm        |                                                                                                                  |                      | ppm          |                   |             | ppm                                          | ppm                                         |        | ppm                                      | %            |                       | enderstander op | ppm      |          | 100 DO 10        | ppm x                                        |                  |                                            | %                                       | ppm                                        |            | xrf ppb ppb                                      |
| R53        | 403         | 4        | 4                                                                                                                | 0.31                                    | <5        | 322        | 10 Martin 1990 - 1997                                                                                            | 0.94                 | <0.2         | 154               | 1.07        | <2                                           | 0.041                                       | 0.16   | <1                                       | 0.03         | 110                   | 0.07            | <1       | <5       | <5               | <20                                          | 17               |                                            |                                         | /                                          | <20        |                                                  |
| R54        | 404         | 7        | 2000 2000 20,0000                                                                                                | - x - x - x - x - x - x - x - x - x - x | 9         | 59         | 000000000000000000000000000000000000000                                                                          | 65123003404040604660 | <0.2         |                   | 2.97        | 2022) neo esc e                              | 0.013                                       | 0.02   | <1                                       | 0.12         | acaa waxa             | 0.02            | 2        | <5       | <5<br>7          | <20                                          | 33<br>99         | <10<br><10                                 | 0.04                                    | 18<br>69                                   | <20<br><20 |                                                  |
| R54        | 2821        | 61       | 13                                                                                                               | 2.3                                     | <5<br>    | 521        | concerne Highlender                                                                                              | 1.36                 | 0.9          | 110               | 3.88        |                                              | 0.029                                       | 0.14   | 4<br>20                                  | 0.98         | 819<br>15             | 0.01            | 6<br><1  | <5<br><5 | <5               | <20<br><20                                   | 39               | <10                                        | secondo contrast                        | <1                                         | <20        |                                                  |
| R55        | 283<br>9649 | 2        | <1<br>5                                                                                                          | 0.33                                    | <5<br>116 | 143<br>154 | e na company                                                                                                     | 0.02                 | 0.2><br>0.6  | 52<br>97          | 0.61<br>6.9 | 0.39 <i>00000000</i>                         | 0.136                                       | 0.26   | 20<br>2                                  | 0.02         | 10                    | <0.03           | <1       | 24       | ~5<br><5         | ~20<br><20                                   | 2                | <10                                        | <0.01                                   | 12                                         | <20        |                                                  |
| R55<br>R56 | 292         | o<br>7   |                                                                                                                  |                                         | 9         | 1051       | an abara ta conten gent                                                                                          |                      | <0.2         | 101               | 1.38        |                                              | 0.012                                       | 0.34   | 13                                       | 0.02         | 237                   | 0.03            | <1       | <5       | <5               | <20                                          | ē                | <10                                        |                                         |                                            | <20        |                                                  |
| R56        | 9652        | 12       |                                                                                                                  | 2.44                                    | 102       | 414        | 2013) - 21-21-20-20-20-20-20-20-20-20-20-20-20-20-20-                                                            | 0.28                 | 0.6          | 49                | 7.54        | 2000 X 000 X 000 X 00                        | 0.028                                       | 0.28   | 17                                       | 1.69         | 577                   | 0.03            | <1       | <5       | 8                | <20                                          | 14               | <10                                        | <0.01                                   | 99                                         | <20        |                                                  |
| R57        | 323         |          |                                                                                                                  | a                                       | <5        | 249        | <5                                                                                                               | N. 414 AMORTONIC     | ana anan     | 67                | 0.79        | <2                                           | 0.023                                       | 0.13   | <1                                       | 0.15         | 132                   | 0.08            | <1       | <5       | <5               | <20                                          | 34               | <10                                        | 0.02                                    | 9                                          | <20        |                                                  |
| R57        | 324         | 4        | enserve e vere                                                                                                   | 0.67                                    | <5        | 254        | <5                                                                                                               | 0.09                 | 0.3          | 82                | 1.45        | <2                                           | 0.018                                       | 0.16   | 21                                       | 0.05         | 496                   | 0.05            | <1       | <5       | <5               | <20                                          | 16               | <10                                        | <0.01                                   | 14                                         | <20        |                                                  |
| R57        | 9670        | 7        | 4                                                                                                                | 0.8                                     | <5        | 253        | <5                                                                                                               | 0.12                 | 0.3          | 78                | 2.2         | <2                                           | 0.032                                       | 0.23   | 15                                       | 0.09         | 312                   | 0.04            | <1       | <5       | <5               | <20                                          | 16               | <10                                        | <0.01                                   | 20                                         | <20        |                                                  |
| R58        | 302         | 2        | 1                                                                                                                | 0.9                                     | 40        | 20         | * <5                                                                                                             | 0.01                 | 0.7          | 61                | 4.05        | 7                                            | <0.01                                       | 0.14   | 37                                       | 0.09         | 929                   | 0.05            | 3        | <5       | <5               | <20                                          | 2                | <10                                        | يو يتبع برو يصين                        | 2                                          | <20        |                                                  |
| R58        | 9659        | 3        | <1                                                                                                               | 0.89                                    | 25        | 47         | 5161120100000000000000000000000000000000                                                                         | 0.03                 | 0.4          | 77                | 4.46        | 8223.25 de co                                | <0.01                                       | 0.11   | 67                                       | 0.15         | 590                   | 0.06            | 2        | <5       | <5               | <20                                          | uccescide modele | <10                                        | 000000-000000-80                        | 2                                          | <20        |                                                  |
| R59        | 290         | 19       |                                                                                                                  | 3.14                                    | 14        | 254        |                                                                                                                  | 0.98                 | <0.2         | 12                | 6.65        |                                              | <0.01                                       | 0.05   | <1                                       | 2.82         | 739                   | 0.05            | <1       | <5       | 8                | <20                                          | 72               | <10                                        | 0.2                                     | 157<br>1                                   | <20<br><20 |                                                  |
| R60        | 289         | 2        |                                                                                                                  | 0.36                                    | 13        | 159        | 000000000000000000000000000000000000000                                                                          | 0.06                 | 0.2          | 62                | 0.84        | 200-1010-2020-20                             | <0.01                                       | 0.14   | 24<br>2                                  | 0.02         | 114<br>445            | 0.07            | <1<br><1 | <5<br><5 | <5<br><5         | <20<br><20                                   | 3                | <10<br><10                                 |                                         | ו<br>7                                     | <20        |                                                  |
| R61        | 287         | 9        |                                                                                                                  | 0.37                                    | <5<br><5  | 220<br>399 | 1111 (1111) (1111) (1111) (1111) (1111)                                                                          | 0.07                 | <0.2         | 136<br>90         | 0.81        |                                              | <0.01                                       | 0.12   | 2                                        | 0.13         | 679                   | 0.02            | <1       | ~5<br><5 |                  | <20                                          | 461              | ana sa |                                         | 17                                         | <20        |                                                  |
| R61<br>R62 | 9650<br>285 | 11<br>6  | 2.2.0200.2000                                                                                                    | 0.85                                    | ~0<br><5  | 4775       | contrar a contrar a contrar a contra                                                                             | 0.1                  | <0.2         | 158               | 0.44        | <2                                           | e en el | 0.25   | <1                                       | 0.05         | 57                    | 0.01            | <1       | <5       | 08-0002000       | <20                                          | 41               | <10                                        | 0.01                                    | <br>5                                      | <20        |                                                  |
| R63        | 284         | 22       |                                                                                                                  | 2.46                                    | ~5<br><5  | 862        | and the second | 0.57                 | <0.2         | 33                | 5.2         | <2                                           |                                             | 0.7    | an an an a' an                           | 1.48         | 784                   | 0.03            | <1       | <5       |                  | <20                                          | 42               |                                            | a ang kana na                           |                                            | <20        |                                                  |
| R64        | 286         | 31       | Correction correction                                                                                            | 1.19                                    | <5        | 509        | CONTRACTOR STREET                                                                                                | 4.77                 | 90500220000  | 98                | 1.74        | <2                                           | 0.018                                       | 0.13   | 4                                        |              | 1172                  | 0.01            | <1       | <5       | <5               | <20                                          | 321              | <10                                        | <0.01                                   | 17                                         | <20        |                                                  |
| R65        | 288         | 8        | ay a series years                                                                                                | 0.53                                    | 179       | 545        |                                                                                                                  | 1.56                 | 0.9          | 150               | 2.01        | <2                                           | 0.015                                       | 0.25   | <1                                       | 0.14         | 341                   | <0.01           | <1       | <5       | <5               | <20                                          | 53               | <10                                        | <0.01                                   | 13                                         | <20        |                                                  |
| R66        | 297         | 12       | 23                                                                                                               | 2.17                                    | 172       | 225        | * <5                                                                                                             | 1.41                 | 1            | 29                | 8.38        | 8                                            | 0.141                                       | 0.13   | 11                                       | 1.32         | 708                   | 0.05            | <1       | 18       | 9                | <20                                          | 27               | <10                                        |                                         | and the second                             | <20        |                                                  |
| R66        | 9655        | 6        | 25                                                                                                               | 2.45                                    | 331       | 179        | * <5                                                                                                             | 0.24                 | 1.4          | 19                | 13.12       | 5                                            | 0.024                                       | 0.17   | 17                                       | 0.94         | 355                   | 0.02            | <1       | <5       | e to de se conse | <20                                          | 11               | <10                                        | - 200 States - 20                       | 112                                        | <20        |                                                  |
| R67        | 9653        | 9        |                                                                                                                  | 1.51                                    | 131       | 564        |                                                                                                                  | . 0.1                | 0.6          | 66                | 3.76        | 6                                            | 0.012                                       | 0.23   | 18                                       | 0.64         | 1346                  | 0.02            | <1       | <5       | <5               | <20                                          | 5                | <10                                        | 0.01                                    | 36                                         | <20        |                                                  |
| R68        | 294         | 1        | 9.9.000 maas                                                                                                     | 0.54                                    | 20        | 1674       | CO05500-CONFERENCE 40026-                                                                                        | 0.05                 | 0.8          | 30                | 1.93        | 1. v                                         | 0.215                                       | 0.34   | 28                                       | <0.01        | 23                    | 0.03            | <1       | <5       | <5               | <20                                          | 5                | <10                                        |                                         | <1                                         | <20        | 90.00000000                                      |
| R69        | 1           | 15       |                                                                                                                  | 0.04                                    | <5        | <10        |                                                                                                                  | 0.14                 |              | 254               | 0.46        | n na salata da                               | < 0.01                                      | < 0.01 | <1                                       | 0.01         |                       | <0.01<br><0.01  | <1<br><1 | <5<br><5 | <5<br><5         | <20<br><20                                   | 11<br>4          | <10<br><10                                 |                                         | 1<br><1                                    | <20<br><20 | 813 W800 800 91                                  |
| R69        | 2           | 7        |                                                                                                                  | 0.02                                    | <5        | <10        | 26. (5. (2. (2. (2. (2. (2. (2. (2. (2. (2. (2                                                                   | 0.02                 | <0.2<br><0.2 | 281<br>261        | 0.34        | <2<br><2                                     | <0.01<br><0.01                              | <0.01  | <1<br><1                                 | <0.01        | 100                   | 0.02            | <1       | <5       | າວ<br><5         | <20<br><20                                   | -4<br>21         | <10                                        | Concentration de                        | 2                                          | <20        |                                                  |
| R69<br>R69 | 3<br>4      | 17<br>15 | a construction process                                                                                           | 0.15                                    | <5<br><5  | 93<br>146  | and and the second                                                                                               | a record to the or a | -0.2         | 201               | 1.32        |                                              | 0.014                                       | 0.03   | 7                                        | 0.17         | 315                   | 0.02            | <1       | ~5<br><5 | <5               | <20                                          | 75               | <10                                        |                                         | 7                                          | <20        |                                                  |
| R69        | 5           | 21       | 2                                                                                                                | 0.4                                     | <5        | -10<br><10 | -970600000000000000000000000000000000000                                                                         | 0.22                 |              |                   | 0.67        | <2                                           | s thereases are a                           | < 0.01 | <1                                       | 0.07         | 93                    | 0.01            | <1       | <5       |                  | <20                                          | 24               |                                            | 0.0000000000000000000000000000000000000 | 3                                          | <20        |                                                  |
| R69        | 6           | 10       | an a                                                                         | 0.02                                    | <5        | <10        |                                                                                                                  | 0.13                 |              | an en la contacto | 0.46        |                                              | <0.01                                       | <0.01  |                                          | < 0.01       | 64                    | < 0.01          | <1       | <5       | <5               | <20                                          | 16               | <10                                        | <0.01                                   | <1                                         | <20        |                                                  |
| R69        | 7           | 20       | 22                                                                                                               | 2.42                                    | 6         | 465        | * <5                                                                                                             | 0.79                 | 0.3          | 18                | 4.6         | <2                                           | 0.114                                       | 0.35   | 9                                        | 1.25         | 1542                  | 0.11            | 6        | <5       | <5               | <20                                          | 67               | <10                                        | 0.14                                    | 74                                         | <20        |                                                  |
| R69        | 203         | 12       | 3                                                                                                                | 0.27                                    | <5        | . 21       | * <5                                                                                                             | 1.11                 | 0.2          | 191               | 1.1         | <2                                           | 0.022                                       | 0.01   | 2                                        | 0.28         | 178                   | 0.04            | <1       | <5       | <5               | <20                                          | 94               | <10                                        | an an 1920 - A 1920 B                   | 18                                         | <20        |                                                  |
| R69        | 201         | 7        | <1                                                                                                               | 0.02                                    | <5        | 45         | * <5                                                                                                             | 0.03                 | <0.2         | 248               | 0.31        | u un de la unitario                          | 0.014                                       | <0.01  | an a | <0.01        | constant and achieves | <0.01           | <1       | <5       |                  | <20                                          | 3                | <10                                        | <0.01                                   | 3                                          | <20        |                                                  |
| R69        | 202         | 14       | 0.0505556665                                                                                                     | 0.02                                    | <5        | 50         | * <5                                                                                                             | <0.01                | <0.2         | ervelone          | 0.3         | <2                                           | 0.0000000000                                | <0.01  | 9603136036363636                         | <0.01        |                       | <0.01           | <1       | <5       | <5               | <20                                          | 3                | <10                                        | 50000000000000000000000000000000000000  | 2                                          | <20        |                                                  |
| R70        | 2618        | 4        | a ala anto tra                                                                                                   | 0.41                                    | 10        | 1440       | <2                                                                                                               | 0.09                 | 0.5          | 178               | 0.74        |                                              | 0.01                                        | 0.21   | <10                                      | 0.05         | 175                   | 0.12            |          | <2<br>-0 | <1               | an da si | 21               |                                            | 0.01                                    | 4<br>44                                    | <10<br><10 |                                                  |
| R70        | 2619        | 48       | 1969 (1969) (1969)<br>1969 (1969)                                                                                | 1.8                                     | 2         | 160        | <2                                                                                                               | 1.02                 | 0.5          | 80                | 4.72        | <10<br>4                                     | 0.01                                        | 0.22   | <10<br>17                                | 1.17<br>0.24 | 1135<br>744           | 0.08            | <1       | <2<br><5 | ו<br>5           | <20                                          | 34               | <10                                        | 0.13                                    | 59                                         | 791        | *                                                |
| R71        | 460<br>8712 | 16       | s fugue cuttrer to                                                                                               | 1.77                                    | 107<br>79 | 791<br>618 | and a second   | 1.89<br>0.56         | 0.3<br>0.4   | 36<br>22          | 9.12        |                                              | <0.01                                       | 0.3    | 14                                       | 0.24         | 760                   | 0.06            | <1       | ~5<br><5 | 17               | <20                                          | 42               | <10                                        | 0.17                                    | and a second second                        | 618        | *                                                |
| R71<br>R72 | 477         | 24<br>5  | 0,004 27970                                                                                                      | 1.93                                    | 79<br>21  | 57         | Sector concernences and                                                                                          | 2.46                 | <0.4         | 22<br>90          | 2.95        | anter en | 0.173                                       | 0.26   | 62                                       | 0.07         | 673                   | 1.14            | <1       | -5<br>21 | <5               | <20                                          | 28               | <10                                        | 0.02                                    | ana a sua a sua sua sua sua sua sua sua su | 57         | *                                                |
| R72        | 478         | 7        | and the second | 0.41                                    | 83        | 181        |                                                                                                                  | 0.01                 | <0.2         | 156               | 0.89        | ACTIVATION CONTRACT                          | 0.054                                       | 0.08   | 18                                       | 0.02         | 31                    | 0.05            | <1       | 6        | <5               | <20                                          |                  | <10                                        | convert encoder                         | 1                                          | 181        | NAL CONTRACTOR OF CONTRACTOR OF CONTRACT         |
| R73        | 8713        | 10       | 요~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                                                           | 3.47                                    | 754       | 220        | e a rose nos passióla (a fullada se a                                                                            | 2.66                 | 0.4          | 27                | 4.77        | 5) (11) (12) (12) (12) (12) (12) (12) (12    | < 0.01                                      | 0.04   | 2                                        | 1.7          | 523                   | 0.27            | <1       | <5       | <5               | <20                                          | 185              | <10                                        | 0000000000000000000                     | 141                                        | 220        | Next Charles and a fact that the strength of the |
| R74        | 8714        | 4        | - 100 Sec. 101                                                                                                   | 0.3                                     | <5        | 102        | and and the second of the                                                                                        | 0.02                 | 0.5          | 87                | 1.49        | accordence en a                              | <0.01                                       | 0.15   | 8                                        | 0.03         | 48                    | 0.11            | <1       | <5       | <5               | <20                                          | 2                | <10                                        | <0.01                                   | 2                                          | 102        | •                                                |
| R75        | 8730        | 2        | 555-555 <b>7-5778</b>                                                                                            | 0.3                                     | 6         | 13         | 666 e e octobre e constant                                                                                       | 0.04                 | 0.3          | 84                | 1.03        | <2                                           | <0.01                                       | 0.12   | 34                                       | <0.01        | 63                    | 0.05            | <1       | <5       | <5               | <20                                          | 2                | <10                                        | <0.01                                   | 2                                          | 13         | ere an en agerre wat hereden.                    |
| R76        | 8722        | 10       | 8                                                                                                                | 0.55                                    | <5        | 77         | * <5                                                                                                             | 0.58                 | 1.9          | 177               | 2.7         | <2                                           | 000000000000000000000000000000000000000     | 0.02   | <1                                       | 0.06         | 303                   | 0.01            | <1       | <5       | <5               | <20                                          | 51               |                                            | 0.02                                    | 9                                          | 77         | 101001001000000000000000000000000000000          |
| R77        | 461         | 11       | 3                                                                                                                | 1.69                                    | 18        | 102        | an the second choice to be the test                                                                              | 10                   | 0.6          | 61                | 1.06        | 4                                            | <0.01                                       | 0.19   | <1                                       | 0.51         | 1041                  | 0.09            | <1       | <5       | <5               | <20                                          | 200              | <10                                        | 0.07                                    | 30                                         | 102        | and the first the detection of a section of a    |
| R78        | 8715        | 4        | <1                                                                                                               | 0.33                                    | <5        | 25         | * <5                                                                                                             | <0.01                | 0.4          | 92                | 1.22        | 3                                            | <0.01                                       | 0.11   | 31                                       | <0.01        | 90                    | 0.07            | <1       | <5       | <5               | <20                                          | 2                | <10                                        | <0.01                                   | 2                                          | 25         |                                                  |

| Мар | Sample                            |                            | Sample | Sample                 | Sample |                                    | Au30 | • )                                                                                                             | ۹ <u>و</u> ۲                                            | Cu * | Pb *  | Zn  | * Mo  |
|-----|-----------------------------------|----------------------------|--------|------------------------|--------|------------------------------------|------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------|-------|-----|-------|
| No. | No.                               | Location                   | Туре   | Size (ft)              | Site   | Sample Description                 | ppb  | opt pp                                                                                                          | im opt p                                                | pm % | ppm % | ppm | % ppm |
| R79 | 462                               | Etolin Is, USFS Rd6547     | G      |                        | RC     | Fest , sil dike w/ dissem py       | <5   | <0                                                                                                              | .1                                                      | 8    | 26    | 115 | 7     |
| R80 | 94                                | Pat Ck                     | SS     |                        |        | Diorite & metaseds float           | <5   | 0                                                                                                               | .2                                                      | 26   | 25    | 108 | 3     |
| R80 | 260                               | Pat Ck                     | RC     |                        | FL     | Qz diorite boulder                 | <5   | <0                                                                                                              | .1                                                      | 5    | 36    | 70  | <1    |
| R81 | 83                                | Wrangell Is, USFS Rd 50050 | G      |                        | RC     | Fest metaseds w/ dissem po         | <5   | 0                                                                                                               | .3                                                      | 62   | 10    | 50  | 2     |
| R81 | 246                               | Wrangell Is, USFS Rd 50050 | Rep    | 0.5                    | RC     | Alt volc w/ fg dissem po           | <5   | <0                                                                                                              | .1                                                      | 71   | 11    | 43  | 2     |
| R82 | 74                                | Wrangell Is, USFS Rd 6265  | G      | 0.4                    | RC     | Qz vn w/ muscovite                 | <5   | <0                                                                                                              | .1                                                      | 27   | 5     | 39  | 1     |
| R82 | 75                                | Wrangell Is, USFS Rd 6265  | G      | 0.5                    | RC     | Ar w/ bands of qz & po             | 7    | 0                                                                                                               | .3                                                      | 72   | 7     | 119 | 3     |
| R82 | 242                               | Wrangell Is, USFS Rd 6265  | G      |                        | TP     | Qz vn w/ po in mica sc             | <5   | 0                                                                                                               | .2                                                      | 52   | 9     | 56  | <1    |
| R83 | 81                                | Wrangell Is, USFS Rd 6265  | G      | 0.6                    | RC     | Garnet sc w/ qz lens & sulf        | 6    | <0                                                                                                              | .1                                                      | 39   | 3     | 73  | 1     |
| R83 | 82                                | Wrangell Is, USFS Rd 6265  | G      | 0.8                    | RC     | Fest gossany sil bt sc             | <5   | <0                                                                                                              | .1                                                      | 47   | 5     | 56  | 1     |
| R83 | 245                               | Wrangell Is, USFS Rd 6265  | Rep    | 0.4                    | RC     | Qz vn in mica sc                   | <5   | 0                                                                                                               | .2                                                      | 99   | 6     | 74  | <1    |
| R84 | 3688                              | K&D area                   | G      |                        | FL     | Fg sulf in leucocratic int         | 7    | 1                                                                                                               | .3                                                      | 41   | 177   | 125 | 7     |
| R84 | 3689                              | K&D area                   | G      |                        | FL     | Sc w/ qz, calc, po                 | 182  | 3                                                                                                               | .4                                                      | 45   | 47    | 143 | 4     |
| R85 | 390                               | Glory Lake                 | SS     | 1                      |        | Granodiorite outcrop in stream     | <5   | <0                                                                                                              | .1                                                      | 21   | 5     | 44  | <1    |
| R85 | 2808                              | Glory Lake                 | SS     |                        |        | Granite outcrop in stream          | <5   | 0                                                                                                               | .2                                                      | 21   | 9     | 44  | <1    |
| R86 | 2854                              | Buck Bar area              | PC     |                        |        |                                    | 64   | <0                                                                                                              | .2                                                      | 31   | 5     | 91  | <1    |
| R86 | 2855                              | Buck Bar area              | PC     |                        |        |                                    | 234  | <0                                                                                                              | .2                                                      | 30   | 5     | 92  | <1    |
| R87 | 142                               | Porterfield Ck, @ head     | G      | 0.1                    | FL     | Qz boulder w/ po, cp               | <5   | 4                                                                                                               | .5 23                                                   | 372  | 19    | 334 | 2     |
| R87 | 9601                              | Porterfield Ck, @ head     | Rep    | 0.5                    | FL     | Garnet gneiss w/ dissem sulf       | <5   |                                                                                                                 | .2                                                      | 97   | 13    | 31  | 2     |
| R88 |                                   | Camp 6 area                | G      | 1                      | 00     | Fel dike w/ fest sulf clots        | <5   | 17 BORD (1993) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975) (1975 | <ul> <li>Recent concerning of the concerning</li> </ul> | 170  | 50    | 149 | 6     |
| R89 | 95                                | Huff prospect area         | G      |                        | OC     | Fest qz vn w/ sparse po            | <5   | 0                                                                                                               | .2                                                      | 28   | 28    | 38  | <1    |
| R90 | 2842                              | Craig River area           | Rep    |                        | RC     | Fest metaseds                      | <5   | 0                                                                                                               | .5                                                      | 88   | <2    | 34  | 5     |
| R91 | 3745                              | N Fork Bradfield River     | G      |                        | OC     | Gneiss w/ minor sulf in shear zone | <5   | 0                                                                                                               | .7 3                                                    | 384  | 5     | 94  | 67    |
| R92 |                                   | Upper Marten Lake area     | Rep    | 0.7                    | OC     | Fest qz vn in sc                   | 517  | 1                                                                                                               | .2                                                      | 26   | 3     | 5   | 9     |
| R93 |                                   | White River                | G      |                        | RC     | Asbestiform minerals               | <5   | <0                                                                                                              | .1                                                      | 16   | <2    | 23  | 2     |
| R94 | 2843                              | White River, NE of         | Rep    |                        | RC     | Fest metaseds w/ fg sulf           | 12   | . 1                                                                                                             | 5 11                                                    | 151  | 7     | 86  | 7     |
| R94 | 3743                              | White River, NE of         | S      | 1. 17. 18. 11. S. A.M. | RC     | Quartzite w/ py, minor cp          | <5   | 0                                                                                                               | .4 4                                                    | 158  | <2    | 10  | 33    |
| R95 | NORDALIS OF SECONDED 12 - 12 - 1  | White River, NE of         | G      |                        | OC     | Gneiss pendant in int              | 13   | 1                                                                                                               | .1 '                                                    | 137  | <2    | 166 | 48    |
| R96 | en el en anti-ser a la anti-ser a | Duck Point, W of           | С      | 0.25                   | OC     | Fest qz vn w/ bt & po              | <5   | <0                                                                                                              |                                                         | 33   | 9     | 18  | <1    |
| R96 | 240                               | Duck Point                 | Rep    | 0.83                   | OC     | Qz vn in metaseds                  | <5   | <0                                                                                                              | .1                                                      | 15   | 9     | 18  | <1    |

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| No.         ppm         ppm         ppm         % ppm         ppm         % ppm         % ppm         % ppm         ppm         % ppm         ppm         % ppm         ppm         ppm         % pm         % ppm         ppm         % pm         % | ppm_ppm_xrf_ppb_ppb<br><1 90 * |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <1 00 *                        |
| R79 462 9 <1 0.24 5 90 * <5 0.08 0.4 170 1.26 <2 <0.01 0.12 81 0.01 272 0.08 <1 <5 <5 <20 7 <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -1 30                          |
| R80 94 48 47 2.5 <5 229 <5 0.33 <0.2 101 4.65 5 0.027 0.58 9 1.45 2958 0.09 3 <5 7 <20 29 <10 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 86 <20                         |
| R80 260 4 3 0.95 <5 2559 * <5 0.25 <0.2 73 2.27 <2 <0.01 0.61 6 0.6 515 0.08 3 <5 <5 <20 17 <10 0.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 41 <20                         |
| R81 83 60 13 6.41 <5 165* <5 3.93 0.2 111 4.64 9 <0.01 0.49 3 0.84 530 0.4 10 <5 6 <20 312 <10 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 59 <20                         |
| R81 246 32 11 3.59 <5 225 * <5 8.85 0.3 36 3.49 <2 <0.01 0.33 2 0.7 1197 0.2 7 <5 <5 <20 264 <10 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 43 <20                         |
| R82 74 49 5 1.22 <5 187* <5 0.83 0.3 222 1.28 <2 <0.01 0.27 2 0.6 147 0.09 2 <5 <5 <20 55 <10 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36 <20                         |
| R82 75 116 14 2.74 <5 1079 * <5 0.19 0.3 259 4.44 <2 <0.01 1.55 5 2.09 243 0.07 5 <5 12 <20 8 <10 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 114 <20                        |
| R82 242 50 7 1.97 <5 439* <5 1.62 0.2 114 2.14 3 0.01 0.63 3 0.96 132 0.09 3 <5 7 <20 60 <10 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 63 <20                         |
| R83 81 56 12 2.74 <5 647 * <5 1.64 <0.2 177 2.78 <2 <0.01 0.59 2 0.96 240 0.12 5 <5 6 <20 69 <10 0.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 63 <20                         |
| R83 82 36 8 1.76 <5 537* <5 0.99 <0.2 179 3.48 <2 <0.01 0.38 2 0.64 268 0.1 <1 <5 <5 <20 97 <10 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 52 <20                         |
| R83 245 60 17 1.58 <5 923 * <5 0.4 <0.2 76 3.79 <2 <0.01 0.58 5 0.97 277 0.1 3 <5 6 <20 16 <10 0.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75 <20                         |
| R84 3688 5 4 2.05 12 895* <5 0.69 0.8 90 1.21 2 0.068 0.16 2 0.1 101 1.22 <1 <5 <5 <4* 57 <10 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 31 <4 *                        |
| R84 3689 112 25 0.6 846 1017 * <5 10 2.9 103 3.1 <2 0.22 0.19 3 0.69 1494 <0.01 <1 63 7 <4 * 762 <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26 6*                          |
| R85 390 7 7 1.08 <5 1374 * <5 0.66 <0.2 18 1.77 3 0.014 0.42 10 0.56 221 0.05 5 <5 <5 <4 * 31 <10 0.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 52 <4 *                        |
| R85 2808 6 6 0.95 <5 1439 * <5 0.8 <0.2 15 2,01 3 0.012 0.32 15 0.44 189 0.05 5 <5 <5 <4 33 <10 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 57 <4 *                        |
| R86 2854 6 16 0.05 <5 25 * <5 0.35 <0.2 43 10 <2 0.056 <0.01 22 0.02 843 <0.01 <1 <5 <5 <20 6 <10 0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 771 <20                        |
| R86 2855 6 18 0.07 <5 52 * <5 0.44 <0.2 52 10 3 0.013 <0.01 30 0.03 875 <0.01 <1 <5 <5 <20 9 <10 0.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 788 <20                        |
| R87 142 23 37 0.05 <5 258 * <5 0.03 3 251 6.31 <2 <0.01 0.02 <1 0.04 40 <0.01 <1 <5 <5 <4 * 2 <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <1 <4 *                        |
| R87 9601 64 22 4.82 <5 504 * <5 4.22 <0.2 67 1.7 3 <0.01 0.03 <1 0.45 225 0.39 3 <5 <5 <4 * 122 <10 0.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 36 <4 *                        |
| R88 2637 3 7 1.41 14 20 364 0.03 <.5 100 3.87 10 0.02 0.16 <10 0.31 290 0.07 <2 <1 3 <.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13 <10                         |
| R89 95 5 4 0.47 <5 100 * <5 0.08 0.2 131 1.22 <2 <0.01 0.08 <1 0.24 103 0.05 <1 <5 <5 <4 * 5 <10 0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 26 <4 *                        |
| R90 2842 10 12 2.31 14 779* <5 1.18 <0.2 85 5.22 4 <0.01 0.09 4 0.9 307 0.17 <1 <5 8 <20 101 <10 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 163 779 *                      |
| R91 3745 102 27 2.02 <5 1413 * <5 1.2 0.6 241 4.12 5 <0.01 0.4 3 1.12 160 0.09 <1 <5 5 12 * 52 <10 0.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 157 1413 *                     |
| R92 3749 14 <1 0.09 <5 <10* 69 0.02 <0.2 262 0.76 <2 0.29 0.01 <1 0.08 43 <0.01 <1 <5 <5 <4* <1 20 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 <10 *                        |
| R93 3744 1402 64 0.25 <5 <10* <5 0.04 <0.2 265 3.51 <2 <0.01 0.08 <1 10 478 <0.01 4 <5 <5 <4* <1 <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5 <10 *                        |
| R94 2843 59 37 5.21 <5 333 * <5 3.86 1.1 116 4.57 12 <0.01 0.27 11 0.53 179 0.19 <1 <5 <5 <20 209 12 0.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 29 333 *                       |
| R94 3743 35 19 0.41 <5 151* <5 0.2 0.2 299 1.36 <2 <0.01 0.03 2 0.01 34 0.1 <1 <5 <5 8* 35 <10 <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3 151 *                        |
| R95 3742 35 4 0.68 <5 847* <5 0.21 1.7 213 2.59 2 0.011 0.36 10 0.43 152 0.08 <1 <5 <5 <4* 19 <10 0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86 847 *                       |
| R96 72 4 <1 0.38 <5 1274 * <5 0.1 <0.2 97 0.6 <2 <0.01 0.15 2 0.1 47 0.09 <1 <5 <5 <20 13 <10 0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 <20                          |
| R96 240 1 <1 0.24 <5 2038 * <5 0.05 <0.2 39 0.57 <2 <0.01 0.09 <1 0.08 51 0.04 2 <5 <5 <20 8 <10 0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 <20                          |

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Table A-3. Analytical results for rare earth element samples

| Мар  | Sample |                          | Sample | Sample    | Sample |                                       | Ce  | Eu    | La   | Lu   | Nd  | Sc   |     | Tb  | Th   | U      | Yb  |
|------|--------|--------------------------|--------|-----------|--------|---------------------------------------|-----|-------|------|------|-----|------|-----|-----|------|--------|-----|
| No.  | No.    | Location                 | Туре   | Size (ft) | Site   | Sample Description                    | ppm | ppm   | ppm  | ppm  | ppm | ppm  | Sm  | ppm | ppm  | ppm    | ppm |
| 11   | 174    | Kadake Bay               | С      | 0.1       | OC     | Carbonaceous fossils in shale         | 41  | 1.3   | 23   | 0.4  | 22  | 19.4 | 3.8 | <1  | 6.6  | 46     | 3   |
| 11   | 175    | Kadake Bay               | Ç      | 0.3       | 00     | Carbonaceous bed in Is                | 12  | 0.6   | 7    | <0.2 | <10 | 2.1  | 1.6 | <1  | <0.5 | 8      | 1   |
| 13.1 | 9628   | Point Saint Albans       | С      | 0.5       | OC     | Gw w/ py band at margins of dike      | 27  | <0.5  | 15   | 0.3  | 10  | 5.4  | 2.4 | <1  | 4.9  | <1     | 2   |
| 13.2 | 178    | Point Saint Albans       | G      | 0.3       | . 0C   | Qz lens w/ py                         | 21  | 0.7   | 11   | 0.2  | 12  | 5.6  | 2.1 | <1  | 2.1  | 4      | 1   |
| 13.2 | 179    | Point Saint Albans       | С      | 0.1       | 00     | Qz lens w/ blebs of sl                | 38  | 1     | 20   | <0.2 | 17  | 2.7  | 3   | <1  | 0.6  | <1     | <1  |
| 13.2 | 180    | Point Saint Albans       | С      | 0.4       | OC     | Qz vn w/ aspy, py, sl, gn             | 13  | 1.2   | 11   | <0.2 | <10 | 6.3  | 0.9 | <1  | <0.5 | <5     | <1  |
| 13.2 | 9629   | Point Saint Albans       | С      | 2.4       | OC     | Fault zone in gw w/ qz & sulf         | 14  | 0.8   | 7    | <0.2 | <10 | 3.7  | 1.8 | <1  | 1.3  | <1     | <1  |
| 13.2 | 9630   | Point Saint Albans       | С      | 1.1       | 00     | Fest shear zone w/ qz & sulf          | 19  | 8.0   | . 12 | <0.2 | 10  | 10   | 2   | <1  | 1.5  | <1     | <1  |
| 13.2 | 9631   | Point Saint Albans       | S      | 0.4       | OC     | Sheared gw br w/ gn                   | 14  | · 0.8 | 14   | <0.2 | <10 | 6.2  | 1.1 | <1  | 1.2  | <1     | <1  |
| 13.3 | 177    | Point Saint Albans       | Rep    | 1.5       | 00     | Fest qz-calc zone w/ py, fg sl        | 12  | 0.7   | 6    | <0.2 | <10 | 5.9  | 1.9 | <1  | 1.3  | ····<1 | 1   |
| 35   | 181    | Monongehela              | С      | 3         | OC     | Fest voic                             | 110 | 0.9   | 38   | 1    | 43  | 1.3  | 8.6 | 1   | 17   | 7      | 7   |
| 53.2 | 9654   | Zarembo Is Fluorite      | С      | 0.4       | OC     | Vuggy, crystalline qz br in andesite  | 24  | <0.5  | 11   | 0.2  | 10  | 0.6  | 2.1 | <1  | 1.8  | 1      | 1   |
| 53.3 | 296    | Zarembo Is Fluorite      | Rep    | 8         | OC     | Fest, banded andesite w/ py           | 65  | <0.5  | 35   | 0.4  | 25  | 1.6  | 4.2 | <1  | 20   | 9      | 3   |
| R66  | 297    | Zarembo Is, USFS Rd 6585 | S      |           | RC     | Fest andesite w/ blebs & banded fg py | 39  | 1.7   | 18   | 0.6  | 24  | 26.5 | 5,3 | 1   | 4.1  | 2      | 4   |

## APPENDIX B - LISTS OF MINES, PROSPECTS, AND MINERAL OCCURRENCES

| Table B-1             | . Alphabetical l     | ist of mine | s, prospects, and mineral occurrence | ces | <u> </u>              |
|-----------------------|----------------------|-------------|--------------------------------------|-----|-----------------------|
| Name                  | Map no.<br>(Plate 1) | Page no.    | Name                                 |     | Page no.<br>(in text) |
| Allied Mine Group E   | 1                    | 16          | Kupreanof Pyrite                     | 28  | 62                    |
| AMAX Molybdenum       | 72                   | 144         | Lake                                 | 82  | 171                   |
| Andrew Creek          | 69                   | 132         | Little Creek                         | 4   | 21                    |
| Berg Basin            | 83                   | 173         | Lost Show                            | 37  | 81                    |
| Berg                  | 85                   | 177         | Lost Zarembo                         | 52  | 104                   |
| Black Crag            | 86                   | 178         | Mad Dog 2                            | 42  | 90                    |
| Bradfield River       | 92                   | 188         | Maid of Mexico Mine                  | 40  | 87                    |
| Bruiser               | 61                   | 118         | Mary Moose                           | 68  | 131                   |
| Brushy Creek          | 45                   | 94          | Mitkof Island, USFS Rd 6245          | 48  | 98                    |
| Buck Bar              | 67 .                 | 130         | Monongehela                          | 35  | 73                    |
| Cascade Mine          | 66                   | 128         | Mt Lewis Cass                        | 90  | 185                   |
| Castle Island Mine    | 29                   | 64          | Nelson Glacier                       | 78  | 160                   |
| Copper King           | 84                   | 175         | Niblack Island                       | 62  | 119                   |
| Copper Zone           | 75                   | 152         | Nicirque                             | 32  | 70                    |
| Corn                  | 9                    | 31          | North Bradford River Skarn           | 89  | 183                   |
| Cornwallis Peninsula  | 2                    | 17          | North Marsha Peak                    | 76  | 154                   |
| Craig Claims area     | 88                   | 181         | North Silver                         | 70  | 136                   |
| Craig River area      | 87                   | 179         | Northeast Cliffs                     | 71  | 142                   |
| East of Harvey Lake   | 41                   | 89          | Northern Copper                      | 21  | 49                    |
| East Marsha Peak      | 77                   | 156         | Pinta Point                          | 14  | . 40                  |
| East Duncan Pyrite    | 30                   | 66          | Point Saint Albans                   | 13  | 36                    |
| Exchange              | 56                   | 110         | Portage Creek                        | 24  | 56                    |
| Fortune               | 43                   | 91          | Portage Bay Pit                      | 20  | 47                    |
| Freel & Durham        | 46                   | 96          | Road Show                            | 47  | 160                   |
| Frenchie              | 50                   | 101         | Round Point                          | 55  | 107                   |
| Glacier Basin         | 81                   | 168         | Saginaw Bay Barite                   | 10  | 33                    |
| Groundhog Basin       | 73                   | 146         | Saginaw Bay                          | 7   | 27                    |
| Gunnuk Creek          | 17                   | 44          | Salamander Creek Pit                 | 60  | 117                   |
| Harvey Creek          | 39                   | 86          | Salt Chuck                           | 23  | 54                    |
| Hattie                | 44                   | 92          | Scott                                | 36  | 79                    |
| Helen S Mine          | 38                   | 83          | South Silver                         | 74  | 150                   |
| Huff                  | 79                   | 163         | Southwest Duncan Canal               | 33  | 71                    |
| Hungerford            | 8                    | 28          | Spruce Creek                         | 31  | 68                    |
| Indian Point          | 26                   | 60          | Steamer Bay                          | 58  | 114                   |
| K&D Mine              | 63                   | 123         | Sun                                  | 64  | 125                   |
| Kadake Bay            | 11                   | 34          | Sunrise                              | 57  | 111                   |
| Kake Area Road System | 15-16,18             |             | Taylor Creek                         | 25  | 58                    |
| Kane Pk               | 19                   | 45          | TB                                   | 34  | 72                    |
| Katherine             | 6                    | 25          | The Islander                         | 65  | 126                   |
| Keku Islet            | 3                    | 19          | Towers Creek                         | 22  | 53                    |
| Kuiu                  | 12                   | 35          | Upper Marten Lake                    | 91  | 186                   |
| Kuiu Lead-Zinc        | 5                    | 22          | West Duncan                          | 27  | 61                    |
| West Nelson Glacier   | 80                   | 166         | Zarembo Island Hornblendite          | 51  | 103                   |

| Table B-1. Alp          | habetical | list of mine          | s, prospects, and mineral occurrences |                      |     |
|-------------------------|-----------|-----------------------|---------------------------------------|----------------------|-----|
|                         |           | Page no.<br>(in text) |                                       | Map no.<br>(Plate 1) |     |
| Wrangell Airport Pit    | 59        | 116                   | Zarembo Island, USFS Rd 52009         | 49                   | 100 |
| Zarembo Island Fluorite | 53        | 105                   | ZF                                    | 54                   | 106 |

| Map  |                       | Latitude    | Longitude   |
|------|-----------------------|-------------|-------------|
| No.  | LOCATION              | deg min sec | deg min sec |
| 1    | Allied Mine Group E   | 56 54 27    | -134 17 42  |
| 2.1  | Cornwallis Peninsula  | 56 55 36    | -134 11 50  |
| 2.2  | Cornwallis Peninsula  | 56 55 17    | -134 11 34  |
| 2.3  | Cornwallis Peninsula  | 56 55 13    | -134 11 11  |
| 2.4  | Cornwallis Peninsula  | 56 55 7     | -134 10 46  |
| 3    | Keku Islet            | 56 55 39    | -134 7 58   |
| 3.2  | Keku Islet            | 56 55 24    | -134 7 12,  |
| 3.3  | Keku Islet            | 56 55 18    | -134 6 59   |
| 4    | Little Creek          | 56 54 20    | -134 7 46   |
| 5.1  | Kuiu Lead-Zinc        | 56 53 59    | -134 6 23   |
| 5.2  | Kuiu Lead-Zinc        | 56 53 52    | -134 6 19   |
| 6.1  | Katherine             | 56 54 11    | -134 5 21   |
| 6    | Katherine             | 56 54 6     | -134 4 42   |
| 7    | Saginaw Bay           | 56 53 27    | -134 9 38   |
| 8    | Hungerford            | 56 53 30    | -134 4 44   |
| 8    | Hungerford            | 56 53 21    | -134 4 19   |
| 9    | Corn                  | 56 52 51    | -134 4 26   |
| 10   | Saginaw Bay Barite    | 56 52 28    | -134 13 19  |
| 11   | Kadake Bay            | 56 48 23    | -133 56 54  |
| 12   | Kuiu                  | 56 48 2     | -133 56 39  |
| 12   | Kuiu                  | 56 47 53    | -133 56 36  |
| 12   | Kuiu                  | 56 47 45    | -133 56 30  |
| 12   | Kuiu                  | 56 47 42    | -133 56 27  |
| 13   | Point Saint Albans    | 56 6 31     | -133 57 27  |
| 13   | Point Saint Albans    | 56 6 16     | -133 57 29  |
| 13   | Point Saint Albans    | 56 6 8      | -133 57 29  |
| 14   | Pinta Point           | 57 5 54     | -133 52 55  |
| 15   | Kake Area Road System | 57 3 4      | -133 49 46  |
| 16   | Kake Area Road System | 57 2 17     | -133 53 32  |
| 17.1 | Gunnuk Creek          | 57 00 14    | -133 51 25  |
| 17.2 | Gunnuk Creek          | 56 59 57    | -133 51 47  |
| 17.3 | Gunnuk Creek          | 56 59 48    | -133 52 17  |
| 18   | Kake Area Road System | 56 59 18    | -133 57 32  |
| 19.1 | Kane Pk               | 56 59 16    | -133 4 22   |
| 19.2 | Kane Pk               | 56 59 11    | -133 4 20   |
| 19.3 | Kane Pk               | 56 58 42    | -133 4 5    |
| 20   | Portage Bay Pit       | 56 54 52    | -133 16 7   |
| 21.1 | Northern Copper       | 56 53 31    | -133 21 51  |

| Мар  | the Stikine area, based on ma | Latitude    | Longitude   |
|------|-------------------------------|-------------|-------------|
| No.  | LOCATION                      | deg min sec | deg min sec |
| 21.2 | Northern Copper               | 56 53 18    | -133 21 59  |
| 21.3 | Northern Copper               | 56 53 20    | -133 22 10  |
| 22.1 | Towers Creek                  | 56 51 29    | -133 24 2   |
| 22.2 | Towers Creek                  | 56 51 19    | -133 23 47  |
| 22.3 | Towers Creek                  | 56 51 14    | -133 23 42  |
| 23.1 | Salt Chuck                    | 56 50 26    | -133 19 21  |
| 23.2 | Salt Chuck                    | 56 50 25    | -133 18 36  |
| 24.1 | Portage Creek                 | 56 50 56    | -133 15 42  |
| 24.2 | Portage Creek                 | 56 50 51    | -133 15 48  |
| 25.1 | Taylor Creek                  | 56 47 46    | -133 21 28  |
| 25.2 | Taylor Creek                  | 56 47 35    | -133 21 31  |
| 26   | Indian Point                  | 56 44 24    | -133 14 39  |
| 27   | West Duncan                   | 56 40 19    | -133 15 29  |
| 28   | Kupreanof Pyrite              | 56 39 59    | -133 15 23  |
| 29.1 | Castle Island Mine            | 56 39 7     | -133 10 2   |
| 29.2 | Castle Island Mine            | 56 39 00    | -133 9 47   |
| 29.3 | Castle Island Mine            | 56 38 53    | -133 9 42   |
| 30   | East Duncan Pyrite            | 56 39 27    | -133 5 5    |
| 31.1 | Spruce Creek                  | 56 40 42    | -133 3 19   |
| 31.2 | Spruce Creek                  | 56 40 31    | -133 2 34   |
| 31.3 | Spruce Creek                  | 56 39 50    | -133 1 44   |
| 32   | Nicirque                      | 56 38 58    | -133 1 29   |
| 33   | Southwest Duncan              | 56 33 55    | -133 5 57   |
| 34   | ТВ                            | 56 31 52    | -133 30 00  |
| 35   | Monongehela                   | 56 28 5     | -133 26 5   |
| 36.1 | Scott                         | 56 34 29    | -133 00 9   |
| 36.2 | Scott                         | 56 34 25    | -133 00 14  |
| 37   | Lost Show                     | 56 34 24    | -133 3 29   |
| 38.1 | Helen S Mine                  | 56 34 14    | -133 4 1    |
| 38.2 | Helen S Mine                  | 56 33 52    | -133 4 3    |
| 39.1 | Harvey Creek                  | 56 34 5     | -133 3 57   |
| 39.2 | Harvey Creek                  | 56 33 53    | -133 3 43   |
| 40   | Maid of Mexico Mine           | 56 33 54    | -133 1 53   |
| 41   | East of Harvey Lake           | 56 33 28    | -133 00 32  |
| 42.1 | Mad Dog 2                     | 56 33 1     | -133 1 36   |
| 42.2 | Mad Dog 2                     | 56 32 50    | -133 1 23   |
| 43   | Fortune                       | 56 31 59    | -133 3 10   |
| 44   | Hattie                        | 56 31 58    | -133 2 50   |

| the Stikine area, based on map numbers from Plate 1. |                           |                         |                          |  |  |
|------------------------------------------------------|---------------------------|-------------------------|--------------------------|--|--|
| Map<br>No.                                           | LOCATION                  | Latitude<br>deg min sec | Longitude<br>deg min sec |  |  |
| 45                                                   | Brushy Creek              | 56 31 12                | -133 1 4                 |  |  |
| <u>10</u><br>46                                      | Freel & Durham            | 56 43 10                | -132 46 47               |  |  |
| 47                                                   | Road Show                 | 56 40 2                 | -132 42 39               |  |  |
| 48                                                   | Mitkof Is, USFS Rd 6245   | 56 33 10                | -132 45 7                |  |  |
| 49                                                   | Zarembo Is, USFS Rd 52009 | 56 25 26                | -132 59 2                |  |  |
| 50                                                   | Frenchie                  | 56 25 8                 | -132 57 3                |  |  |
| 51.1                                                 | Zarembo Hornblendite      | 56 25 9                 | -132 37 48               |  |  |
| 51.2                                                 | Zarembo Hornblendite      | 56 24 53                | -132 37 39               |  |  |
| 51.3                                                 | Zarembo Hornblendite      | 56 24 51                | -132 37 55               |  |  |
| 51.4                                                 | Zarembo Hornblendite      | 56 24 51                | -132 38 9                |  |  |
| 52                                                   | Lost Zarembo              | 56 22 54                | -132 53 54               |  |  |
| 53.1                                                 | Zarembo Island Fluorite   | 56 17 57                | -132 57 43               |  |  |
| 53.2                                                 | Zarembo Island Fluorite   | 56 17 44                | -132 57 29               |  |  |
| 53.3                                                 | Zarembo Island Fluorite   | 56 17 33                | -132 57 20               |  |  |
| 53.4                                                 | Zarembo Island Fluorite   | 56 16 13                | -132 55 52               |  |  |
| 54                                                   | ZF                        | 56 17 28                | -132 48 24               |  |  |
| 55                                                   | Round Point               | 56 16 50                | -132 42 12               |  |  |
| 56                                                   | Exchange                  | 56 25 16                | -132 31 58               |  |  |
| 57                                                   | Sunrise                   | 56 25 7                 | -132 31 46               |  |  |
| 58.1                                                 | Steamer Bay               | 56 8 13                 | -132 39 22               |  |  |
| 58.2                                                 | Steamer Bay               | 56 8 9                  | -132 39 36               |  |  |
| <u>59</u>                                            | Wrangell Airport Pit      | 56 29 10                | -132 22 49               |  |  |
| <u>60</u>                                            | Salamander Creek Pit      | 56 18 22                | -132 13 29               |  |  |
| <u>61</u>                                            | Bruiser                   | 56 6 24                 | -132 4 35                |  |  |
| 62                                                   | Niblack Island            | 56 3 7                  | -132 5 57                |  |  |
| 63                                                   | K&D Mine                  | 57 28 49                | -133 28 33               |  |  |
| <u>64.1</u>                                          | Sun                       | 57 19 8                 | -132 57 55               |  |  |
| 64.2                                                 | Sun                       | 57 19 53                | -132 54 46               |  |  |
| 65                                                   | The Islander              | 57 16 3                 | -133 30 42               |  |  |
| 66                                                   | Cascade Mine              | 56 59 30                | -132 47 20               |  |  |
| 67.1                                                 | Buck Bar                  | 56 43 5                 | -132 4 12                |  |  |
| 67.2                                                 | Buck Bar                  | 56 42 48                | -132 6 23                |  |  |
| 67.3                                                 | Buck Bar                  | 56 42 50                | -132 6 11                |  |  |
| 67.4                                                 | Buck Bar                  | 56 42 21                | -132 3 49                |  |  |
| 67.5                                                 | Buck Bar                  | 56 42 19                | -132 3 37                |  |  |
| 67.6                                                 | Buck Bar                  | 56 42 16                | -132 3 15                |  |  |
| 68                                                   | Mary Moose                | 56 40 00                | -132 14 22               |  |  |
| 69.1                                                 | Andrew Creek              | 56 36 19                | -132 9 42                |  |  |

| М          | the Stikine area, based on n | The Average             | Longitude   |
|------------|------------------------------|-------------------------|-------------|
| Map<br>No. | LOCATION                     | Latitude<br>deg min sec | deg min sec |
| 69.2       | Andrew Creek                 | 56 34 15                | -132 6 45   |
| 69.3       | Andrew Creek                 | 56 34 7                 | -132 6 17   |
| 69.4       | Andrew Creek                 | 56 34 3                 | -132 5 57   |
| 69.5       | Andrew Creek                 | 56 33 57                | -132 6 15   |
| 69.6       | Andrew Creek                 | 56 33 51                | -132 5 35   |
| 69.7       | Andrew Creek                 | 56 33 38                | -132 6 21   |
| 69.8       | Andrew Creek                 | 56 33 20                | -132 5 48   |
| 69.9       | Andrew Creek                 | 56 33 24                | -132 4 33   |
| 70.1       | North Silver, N              | 56 31 28                | -132 2 21   |
| 70         | North Silver                 | 56 30 54                | -132 2 41   |
| 70.3       | North Silver                 | 56 30 56                | -132 2 19   |
| 70.4       | North Silver                 | 56 30 43                | -132 2 30   |
| 70.5       | North Silver                 | 56 30 37                | -132 2 21   |
| 71.1       | Northeast Cliffs             | 56 31 9                 | -132 3 8    |
| 71.2       | Northeast Cliffs             | 56 30 39                | -132 3 5    |
| 72         | AMAX Molybdenum              | 56 31 8                 | -132 3 38   |
| 73.1       | Groundhog Basin              | 56 31 1                 | -132 3 35   |
| 73.2       | Groundhog Basin              | 56 30 56                | -132 3 50   |
| 73.3       | Groundhog Basin              | 56 30 50                | -132 3 40   |
| 73.4       | Groundhog Basin              | 56 30 40                | -132 3 23   |
| 74         | South Silver                 | 56 30 25                | -132 2 19   |
| 75.1       | Copper Zone                  | 56 30 29                | -132 2 53   |
| 75.2       | Copper Zone                  | 56 30 16                | -132 2 54   |
| 76.1       | North Marsha Peak            | 56 29 40                | -132 2 45   |
| 76.2       | North Marsha Peak            | 56 29 34                | -132 2 34   |
| 77.1       | East Marsha Peak             | 56 29 26                | -132 1 42   |
| 77.2       | East Marsha Peak             | 56 29 20                | -132 1 47   |
| 78.1       | Nelson Glacier               | 56 29 30                | -132 00 44  |
| 78.2       | Nelson Glacier               | 56 28 59                | -131 59 50  |
| 79.1       | Huff                         | <u>56 2</u> 9 34        | -131 59 56  |
| 79.2       | Huff                         | 56 29 21                | -131 59 59  |
| 79.3       | Huff                         | 56 29 3                 | -131 59 49  |
| 79.4       | Huff                         | 56 28 57                | -131 59 41  |
| 79.5       | Huff                         | 56 28 49                | -131 59 29  |
| 79.6       | Huff                         | 56 28 45                | -131 59 10  |
| 79.7       | Huff                         | 56 28 35                | -131 59 17  |
| 80         | West Nelson Glacier          | 56 28 45                | -131 59 51  |
| 81         | Glacier Basin                | 56 28 46                | -132 1 14   |

| Map<br>No. | LOCATION                    | Latitude<br>deg min sec | Longitude<br>deg min sec |
|------------|-----------------------------|-------------------------|--------------------------|
| 82.1       | Lake                        | 56 28 25                | -132 5 43                |
| 82.2       | Lake                        | 56 28 18                | -132 5 47                |
| 83         | Berg Basin                  | 56 26 48                | -132 00 36               |
| 84.1       | Copper King                 | 56 26 24                | -131 57 50               |
| 84.2       | Copper King                 | 56 26 21                | -131 57 55               |
| 85         | Berg                        | 56 23 20                | -131 57 25               |
| 86.1       | Black Crag                  | 56 32 00                | -131 42 4                |
| 86.2       | Black Crag                  | 56 32 16                | -131 41 28               |
| 86.3       | Black Crag                  | 56 32 46                | -131 40 38               |
| 86.4       | Black Crag                  | 56 32 56                | -131 39 28               |
| 87         | Craig River area            | 56 27 53                | -131 21 19               |
| 88.1       | Craig Claims area           | 56 27 4                 | -131 15 16               |
| 88.2       | Craig Claims area           | 56 27 9                 | -131 14 13               |
| 89.1       | North Bradfield River Skarn | . 56 24 37              | -131 25 00               |
| 89.2       | North Bradfield River Skarn | 56 24 29                | -131 25 4                |
| 89.3       | North Bradfield River Skarn | 56 24 10                | -131 25 5                |
| 89.4       | North Bradfield River Skarn | 56 23 48                | -131 25 2                |
| 89.5       | North Bradfield River Skarn | 56 23 28                | -131 24 1                |
| 89.6       | North Bradfield River Skarn | 56 23 35                | -131 23 25               |
| 89.7       | North Bradfield River Skarn | 56 23 13                | -131 23 15               |
| 90.1       | Mt Lewis Cass               | 56 23 32                | -131 7 4                 |
| 90.2       | Mt Lewis Cass               | 56 23 33                | -131 6 40                |
| 90.3       | Mt Lewis Cass               | 56 23 9                 | -131 6 34                |
| 91         | Upper Marten Lake           | 56 17 16                | -131 47 30               |
| 92.1       | Bradfield River             | 56 13 47                | -131 32 37               |
| 92.2       | Bradfield River             | 56 13 35                | -131 30 25               |
| 92.3       | Bradfield River             | 56 14 8                 | -131 27 4                |