

87-49 100

Small probably slumped etc near
 stream hidden-cove

Brown weathering biotite muscovite
 etc schist Strongly P22 foliated

Biotite forms streaks on SA surface

Contains pegmatite which has pods, lenses,
 veins

No large melanitic gneiss visible

Contains small staurolite prisms

P22 033/15 NW

probably slumped

87-50

160

Spc to spc underneath the
groundline

Very silica rich (i.e. very dirty)
calcite marble. Coarsely crystalline gray to
off-white calcite. Contains numerous silicate
bands weathering in relief. They contain
epidote, amphibole, chlorite, biotite, etc.

Section of igneous marble shows root rock -
brown in spots

Small greenish hue to unit because of
abundant silicates. Not a calc-silicate.

Doesn't have extreme toughness of calc-silicate.

P52

005/0863

Spc overall weathers to a rusty brown

PS2 035 / 18 NW

027 / 15 NW

Hillslope of at edge of stream valley

Dominantly brown-weathering, noncalcareous, light muscovite gtz schist. Strongly PS2 foliated. Medium grained.

One portion near center of exposures contains coarse grained off-white calcite marble w/ silicate bands weathering in relief. Marble contains disseminated epidote. Relief bands are hard, pale green - probably contains abundant epidote.

All of weather w/ white calcite druse
 - Strong differences in relief of druse w/ schist
 - in relief & shape recessive.

Calcite druse + great differences in relief suggest marble & possibly calc-silicate are much more common than druse would indicate. Rock would probably be quite variable if coarsened.

8752 100 100 3D

PS2 013/16W

Trench contains extensive subcrop.

100 - Orn weathering biotite-musc - gto schist Strong PS2 foltn Silvery gray to brownish gray Sa surfaces. No coarse py/hydro blake rock

100 - off white to gray coarse calcite marble. Quite dirty w/ disseminated silicates and silicate bands and lenses. Calc-silicate bands are dominantly green & pale green (amphibole + epidote).

- 3D Strongly PS2 foliated in pale green & brownish purple. locally moderately calcareous.
- In places weathers w/ the brown color
 - because of fine diss py/spo. (?)
 - Epidote-rich pale green bands are tough and
 - don't break easily. Miscellaneous bands as like 100 schist.

Trench dominantly 100 and 3D w/ 100 largely at end closest to stream.

87-53 1C0

Coarse grained, very micaceous
biotite-muscovite-qtz-staurolite schist.
Weathers to a pale tan brown. More
micaceous than previous of seen
today. Also contains garnets.

PS2

045/30NW

87-54 3D

Massive to banded pale green, tough
calc-silicate. Generally noncalcareous. Weathers
as sharp angular blocks. Contains bands
of purplish brown biotitic intervals. Also
contains minor coarse grained calcite which
weathers recessively.

Strongly PS2 foliated. Biotite bands
generally 1-5 cm thick.

PS2

052/20NW

87-55

3D

Bandol pale green & brown calc-silicate.
Banking on scale 1-3 cm. Noncalcareous.

Strongly PS2 foliated. Weathers as sharp
angular blocks.

PS2 015/23W

Contains some thin very recessive horizons
which may contain substantial calcite.

87-56

10A8

musc-biotite. foliated

Med-fine grained, equigranular musc-
biotite gtz. No phanocryst
visible.

Partly foliated - difficult to see
a good S2 fitn.

jointing 015/90

possible PS2 162/45 W

07-57

3D

3C

Thinly laminated, ps₂ foliated, very slightly calcareous, pale green + dk brown calc-silicate.

Dominant colour pale green weathers as angular blocks.

qtz to spc disrupted No structure possible. Laminated on scale of less than 1cm.

Pegmatitic bull qtz pod. present

qtz also has dk green, slightly calcareous amphibolite. Former metabasite

03-58 3D

100

Pale green to dark green tuffaceous
angular, etc brown weathering calc-silicate
laminated on scale ≤ 1 cm. Contains
very recessive layers which are
presumably calcareous. PSZ foliated.

Interbanded with brown-weathering,
non-calcareous biotite-muscovite schist.

This o/c contains well developed
post-S2 folds

FA 150/12

AP 040/13 SE

S2 near vertical because only the
fold nose is exposed

#07-62 : 1C0

10AB musc-biot

Interbanded dk brown musc-biot schist and also musc-biot 10AB gte diorite. Schist is coarse grained. 10AB and schist are both pervasively P52 foliated. Foliation very readily visible in schist. 10AB

Granitic fowls sills parallel 52. Thickness ranges from 10cm to 2 feet. c/c to 73 granite + 1/3 schist.

Biotite is fresh - it does not contain fibrolite.

P52 140/32 SW

#¹⁰07-63

10AB Musc-biot foliated
+ 1C0 + 3D

Strongly P52 foliated med-grained to med-fine grained intrusive. Aplitic appearance w/ main minerals being feldspar + qtz. Qtz very flattened & strong ribbon texture.

P52 170/40 W

Interbanded 1C0 biotite-musc-gte schist. No fibrolite noted. Med-grained

87-59 3D

Finely laminated, slightly calcareous
green calc-silicate. Tough to hammer.
Looks massive on broken edges but
weathers w/ fine laminations.
Contains disseminated py (?) which
give it a rust brown colour.

Strongly P52 foliated 5W
P52 135/30 SE

87-60 10AB Musc-biotite

Mid-fine grained, equigranular,
foliated musc-biot g⁺ diorite.
No phenocrysts visible. No structure
because of blocks are slumped.

87-61 1C0

Brn weathering, noncalcareous, biotite-musc
schist. Small of contains 10-15 cm thick
pegmatitic white bull g⁺ vein // SA
P52 foliated 38/18 SW

Schist also strongly PS_2 foliated

Also 3D calc-silicate. Weathers white
Poorly laminated w/ some pale green looks
to contain scattered large garnets

Broken surface is tough pale green,
homogeneous, massive

Possibly due intrusion so
thoroughly altered schist that it becomes
a calc-silicate.

SECT 20/87

Traverse in RIR claims

crispy - almost snow

87-64

150

[150.2]

Med-dark to dark gray biotite-muscovite
gta schist. Strongly P52 foliated. Biotite
forms streaks on S2 folia 2/c walls
to a dark brown 10-20 cm pegmatite
with bull gta veins parallel S2 surface

P52

162/22W

Micaeous, medium-coarse grained

87-67.

100

[KDO].

Medium gray, somewhat brown, well-sorted
biotite-muscovite-gt. andalusite-staurolite schist.
Staurolite as small brown prisms. Andalusite as
large prisms randomly oriented on S2 foliation
surface. PS2 foliated. Biotite forms
streaks on S2 surface. Unit weathers to
reddish brown to dull dark brown.

PS2. 160/16SW

biotite streaks on S2. 170/05.
reminds me of schist near 1040 on
exposures just NW of Vanguard Crk.

Contains thin qtz veins & lenses.

Andalusite blades weather in relief. They
are up to 5cm long.

87-65

1C0

Medium gray, med.-coarse grained,
biotite-muscovite-qtz schist. Weather to a
red dk. brown. Micaceous. Biotite looks
fresh.

PS2 foliated

PS2 120/22 SW

87-66

1C0

Same biotite-musc-qtz schist as last 1/2.

PS2 142/15 SW

87-60

100

Medium silvery gray, micaceous, conical, conical,
biotik-muscovik-qtz-staurolite schist. Medium
to med-fine grained. Weathers pale silvery bronze.
Small staurolite prisms

Occasionally can see faint hint of
cordierite prisms.

Strongly PS2 foliated, Biotik streaks
on S2 folia

PS2	170/18W
biotik streaks.	184/03

87-69

160

Extensive of associated w/ porous gale
Silvery grey, med-fine grained, noncalcareous
schist. PS2 foliated.

PS2 000/20W

Biotite-muscovite-gt-staurolite. Biotite forms
sheets on S2 surface. Star as small
brown prisms.

Minor pyroclastic white gt pods / veins / lenses
parallel S2

Locally can see minor relict andalusite
prisms on S2 surface.

PS2 170/14W

Biotite streaking on S2 180/00

Crenulations crinkle on S2 330/05

87-70

160

Same schist as described for last
station (87-69)

PS2 160/15W

87-71

100

PS2 foliated, silvery gray weathering,
 biotite-musc-qtz schist. Strongly PS2
 foliated. Biotite on sheaths on S2 surface
 they banded between more qtzose & more
 siliceous - varietal. Minor pyroxene white
 qtz lenses & veins parallel S2

PS2 007/20W

PS2 135/20SW *

Biotite sheaths on S2 185/12

locally can see hint of large relict
 andalusite porphyroblasts.

87-72

100

lichen-covered of silvery gray, med-fine
 to med. grained, non-schistose schist Biotite-
 muscovite-qtz. PS2 foliated. Minor pyroxene
 white qtz. lenses & pods parallel S2

PS2 : 115/15S

87-73

160

- Silvery gray, noncalcareous, PS2 foliated
- schist Biotite-muscovite-qtz-garnet.
- Biot forms thin streaks on S2 foliation surface.

Similar to all other schists in this area
of the map

PS2 140/15 SW

biotite streaks on S2 185/06

crinkle line on S2 330/04

87-74

160

[3FO] (100)

Med-coarsely crystalline, very green,
calcite marble. Colour gray to off-white -
banded on a scale of 1-3 cm. Only a
few silicate bands which are dk green
from hb1 & few pyrochlore pt veins // S2

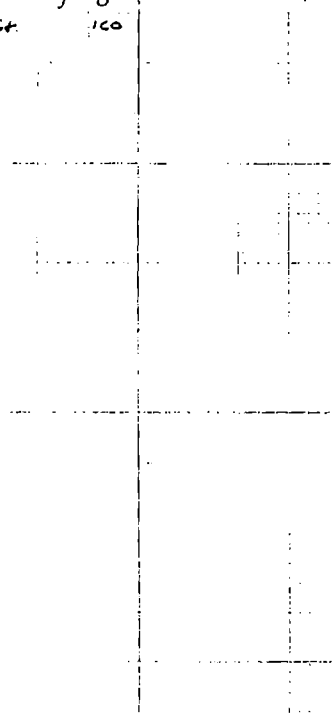
Very much like marble exposed at

- Min Road right at Ski Hill

PS2 foliated 163/26W

- Marble exp about 9' tall.

Marble structurally overlain by planes,
752 foliated, red-fine grained, biotite-muscovite,
etc schist. 100



87-75

100

PS2 foliated, noncalcareous, med-dk gray schist. Biotite-musc. qtz-garnet. Med-fine grained. Micaceous. Weathers to a dull brown. Similar to other schists encountered today

PS2 150/21 SW

87-76

100

2 minor

Med-fine grained, dark gray to med-dark gray, noncalcareous schist. Biotite-musc. qtz-garnet-staurolite

PS2 foliated. Pegmatitic qtz pods & veins parallel to foliation.

PS2 165/12W

87-77

3FO

[100]

Clean, pure white calcite marble w/ thin bands of gray calcite marble. Very pure - essentially no silicate bands. PS2 foliated

PS2 146/18 SW

87-78 1G0 {3F0}

Small cfs of quartz clean, off-white, calcite marble. No silicate bands in this exposure. P52 foliated.

P52 045/19NW
possibly slumped (?)

87-79 1G0 , 1C0 , 3D

All 3 lithologies interbanded. - on scale of 10-50 cm.

1G0 - clean off-white coarsely crystalline marble. No thin silicate layers within it

1C0 - nod fine grained biotite-muscovite schist. Weathers to a silvery rusty brown Noncalcareous.

3D - pale green, fine grained, hard. calc-silicate. Generally slightly calcareous. Weathers and breaks to sharp angular blocks. Some minor purplish (biotite?) bands.

All units P52 foliated. locally 3D looks disrupted & bivalved.

P52 095/20S

27-00

1D08

Subcrop exposures @ edge of road
Retrogressed 100 schist Weathers silvery
gray w/ green tint On S2 surface
can see large blk green fanned andalusite(?)
prisms. P52 foliated

27-01

3F0

[160]

Medium alline, gray calcite marble.
Contains thin micaceous bands Discontinual
of the weathers as brown spots staining
o/c.

P52 foliated S2 is distorted by
late deformation.

Structure difficult because only have
smooth o/c tops poking through ground

P52 ? 150/06 SW

Overall colour gray Not so clean as
of immediately to SE. Reason??

SEPT 23/87

87-83 160

Platy gray-weathering, off-white to gray
calcite marble. Quite pure. Only thin
micaceous bands.

PS2 052/22NW

possibly slumped (?)

87-84 160 "clean"

Same as last station
platy weathering, gray calcite marble.
Only thin, minor micaceous bands

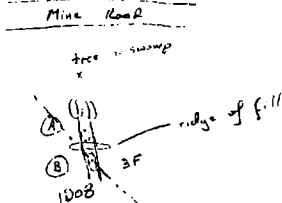
PS2 014/11W

Banding on scale 1-3 cm.

87-82

100 {3FO}

Plan view of trench of dip indicated



(A) Subcrop only 100 (102)

Clear, white, coarsely crystalline marble.
No silicate bands.

Also numerous pieces & debris of carbonaceous
de gray fine-grained schist. Tiny biotite
streaks on S2 folia. Breaks into thin
plates. Weathers to a silvery gray.

(B) 100 (100)

Dominant rock is pale silvery grayish
fine-grained schist. Biotite streaks visible
on S2 surface. P2A foliated. Dark
green amphibole splotches/prisms on S2
surface.

87-05

1000

Slump blocks to slc no good ofc.
Fine-grained, silvery gray schist. Weathered
surface weathers pale brown.

Fresh surface brown (biotite) or
green (chlorite). Locally shows extensive
rehabilitation of biotite to green chlorite.

87-06

160

Small hillside ofc beneath large
10MB till boulder Very "silicified"
calcite marble. Contains abundant
silicate lenses & pods & bands up to
2 cm thick.

Strongly PS2 foliated

PS2 032/13 NW

Pale green (epidote) & dark green
(amphibole) silicates present. Spotty
brown staining from former pyrite.
Silicate bands make up to 50% of
marble. Calcite mod. coarsely
ylline.

Schist is retrograded. Especially along
vertical fractures. Pervasive flowling and
chlorite development as seen adjacent
to fractures

o/c closest to road is grey marble.
Platy weathering

PS2 172/12W

Biotite streaking 350/02

Contact between the 2 units
trends 165°

87-88

160

1010

- Aplitic to pegmatitic 1010 dyke.
- X-cuts dominant PS2 ftn.

Immediately N of dyke strongly PS2
banded marble to calc-silicate. Marble
layers weather in very massive sheets.

PS2

138/28 SW

Dyke trend 120°

- On S-side of dyke is 100 schist.
- Dyke only 2'-3' thick @ most

87-87

300

100

100

Med x-line, med gray calcite marble
w/ numerous thin silicate bands.

Marble weathers to gray w/ abundant
brown spot staining. Overall of
has a white drusy coating.

Thin compositional banding
Grades into calc-silicate — strongly
banded on a scale of 1-3 cm.

All PS2 foliated

PS2 1.35/31 SW

Perhaps the calc-silicate is actually
extremely PS2 foliated 100 biotite
schist w/ thin 1000 silts which
are strongly foliated? locally it is
pale green. + dk. brown banded.

Samples

Also of contains PS2 foliated,
med-x-line biotite-muscovite-yth schist.
Weathers to a dull dark brown

87-90

10MB

160

Lower part of o/c to PS2 foliated,
equigranular musc. biotite gte dioritic.
No S-C band texture - just
planar SA fltn.

Structurally conformably overlying it
to PS2 foliated, silicified
marble. Calc-silicate bands &
calcite bands interlayered on 1-3 cm
scale.

Calcite off white to dirty white
w/ numerous brown spots. Calc-silicate
bands generally pale green.

Contact looks // SA although
not well exposed.

PS2 157/25SW

87-91

3D0

Thinly banded, noncalciferous calc-silicate.
Weathers as thin platy white chips w/ green
silicate layers & brown spots. Looks like
very dirty marble type but no reaction of
HCl

No structure because just chips

87-09 3D / 100 / 100

Dominant rock type is massive pale green
+ pink calc-silicate. Weathers w/
angular, sharp corners. Breaks w/
conchoidal irregular surface. Weathered
surface shows fine PS2 banding
which is not visible readily in broken
pieces.

Minor dark grey marble, &
brown-weathering biotite-muscovite
schist also present.

Wonder if calc-silicate isn't
partly related to proximity to 1040
basaltic.

PS2 132 / 345W

Structural sequence

100

3D

3F [10]

Of and pieces of rock in trench
 H1 P52 foliated

P52 150/255W

Thinly laminated off-white to grey,
 red-silice calcite marble and sh
 brown 100 schist. Like interbanding
 of these 2 types on scale 1-3 cm.

Calcite contains pale green droppings
 that present as lake green bands. Looking
 at very oscillatory lamination units

locally marble is cleaner w/ more
 uniform grey appearance. locally schist
 has slightly calcareous bands which are
 pale green - forming calc-silicate bands.

Calc-silicate & schist locally form
 banding in marble.

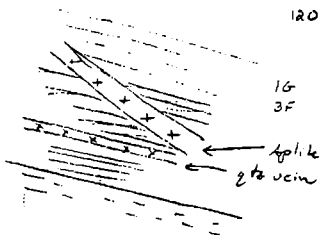
Prominent rock here is 16 Calc-silicate
 is intimate mixture of 1C and 1B where
 most of calcite has reacted to calc-silicates



Looking East

PS2

120/26SW



1G

3F

qtz veins

qtz veins

100

with qtz veins

Very similar to last station. With thinly bedded, platy-weathering argillaceous marble. Contains numerous thin siliceous bands.

In logging this would be very similar to the siliceous marble from drill core of Vancouver Pluton.

Strongly PS2 foliated. Weathers w/ white drusy coating.

- Marble, structurally underlain by dk brown-weathering, fine-grained schist w/ some greenish calc-silicate bands developed.
- Biotite-muscovite-qtz schist

87-97

Small of interbedded 160 and 100. Similar to last station Dirty, thinly bedded made of abundant Silicates

Contains thin dyke/sill of fine-grained biotite-muscovite 10A3. Only present as angular debris - must not be very thick.

87-94 1040 muscovite foliated.

PS2 foliated, med-fine alline aplite
muscovite pts limonite. light warm
color. Scattered muscovite. Biotite
not noted.

locally pegmatitic

87-95 160 / 100

Finely alline biotite-musc - pts schist
of thin calcareous horizons that weather
very excessively. locally biotite schist
retrogressed to green chlorite - especially
along fractures.

PS2 foliated

PS2 132/23 SW

87-96 160/100

Some finely intermineralized gray marble
and schist. Like the siliceous marble on
Vergara Plateau. Strongly PS2 foliated.

PS2 108/235

Boulders or scale 1cm to 20cm.
Dominant rock type is the marble.

retrograde alterations of the biotic
sheet. No calc. s. licate positively
identified.

8747 I.D.O. 3FO [160]

Scattered stream of a/c. as come
upstream from road. This was former
stream channel - now directed to NW.

Dominantly biotite-muscovite-garnet-
cordierite (?) schist. Strongly plicose
PS2 foliated. SA surface weathers
silvery brown.

SA surface contains radiating
sheaves of rutile needles - former
large cordierite prismatic blasts.

Now road of a/c of schist is strongly
diagonal to muscovite-chlorite schist.

About $\frac{2}{3}$ way up a/c exposures
have clean, grey to white coarsely
crystalline marble exposed in
stream bed. No calc-silicate
exposed in stream.

PS2 150/24 SW

Schist looks like it has the
dark biotite-andalusite bands &
cbs commonly noted in Fano
Drill core

o/c exposure of marble 2' of
S2 surface. No idea of
structural thickness. Structurally
above & below is schist.

07-48

1.60

Slaty brown weathering biotite-muscovite-
staurolite-andalusite schist. Generally
equigranular texture. Strongly P₂
foliated. Shows as small brown prisms.
Incl. no compositional bands w/ biotite.
No large porphyroblasts noted.

Pyrochlore pts. in calc. large
pink andalusite crystals.

PS2

20.7/13W

Biotite forms streaks on S₂ surface.

Biotite streaks 350/05

Coarse post S₂ crinkle lin 310/17

SEPT. 19/1987

- 1) Traverse on RR claims
Just N.E. of Mine Access Road

87-46 1C0

Dominant rock type is strongly PS2 foliated
biotite-muscovite-gt schist. Very planar

- 52 folia 52 surface weathered silty grey
Fresh surface is purplish brown. Small
psammitic texture of abundant gt

Foliated in all directions. In wall to
each gress, dilational zone. PS2 foliated
amphibolite has calc-silicate appearance.
Thickness 10cm or greater

PS2 137/23 SW

biotite streaks on PS2 195/25

luteal scintles on PS2 295/10

Biotite streaking caused by biotite on
edge

Caution: Green potential calc-silicate
scratch very easily. Probably chert