

03/05/91 Athelstan

Rainbow/Tam O'Shanter

6+50 E, 3+10 N

825009

Sample BCS 15226

? QFP + tr. py [dior]

rusty weathering; small o/c
but makes up most of the
talus on powerline road

6+50 E, 75+00 N

Sample BCS 15227

- diorite/gabbro + py, po

- sampled from rubble pile beside
pit

- no surface o/c

8+00 E, 2+57 N

Sample BCS 15229

- highly siliceous, pale green-grey
chert / tuff?

- surrounding area very rusty (sx)

BCS15201

BCS15202

May 7, 1971 Overcast and Windy

Rainbow - South Grid

B/L

11+90 E

Diorite - med. - coarse grained
pale green colour

L4+00 E

Listwanite - sample BCS15201

13+75 N

Red colour, remnant magnetism
[weak]
Qz veining

Fault

356° / 15° E

- Listwan/serp

- chalcidonic veining
along contact

sample # 2

- diorite below

- 1cm qz veinlets in 1m

thick highly weathered unit of
diorite

Jointing

353 / 60° E

in listwanite [more
massive, blocky]

L 3+75 E

Diorite? overall green
colour

12+50 N

- feldspars on weathered
surface; med. grained

* - biotite

- few mafics

May 8/91

- want to check out feldspar ϕ ,
Marron intrusives, and diorite

Raining lightly, foggy

2+00E fence crosses line

8+80N bearing N-S

4+00E ^(outcrop) Sed trending 165°

6+50N hand sample in bag
[sst/cgl]

4+00E gully cross-cutting hillside
7+50N looks anomalous

6+00E ? Fine grained green to brown
0+50N groundmass with 1-3mm
phenocrysts of pyx

? Marron Fm.
~foliated, friable

6+00E fol 046/67E

0+85N -fg green sed? in small o/c
-hand sample

6+00 E - extremely f-gr. banded
90 N grey sediment with white
laminations, exposed in a
small gully [fault?]
- sample "rain"
- good bedding 043/67 E

sampled.

6+00 E - cliffy outcrop of diorite?
4+50 N - fine grained, jointing 292/65
- weathers gritty in places -
possibly because so highly
broken up
- sample "small row"
- broken up stuff -

looks like intrusive in cut section
- could be dyke

May 9/91 Cloudy - Rainbow -

L8+00 E Fine-grained green-grey sed
0+7 N [sandstone] with few larger
grains - dull colour

[could be fol.] Striking ~ 048/52 E but
fairly disrupted

Sample BCS 15203

8+35 E

? Marron volcanic

1+00N

Dull brownish-grey f.gr. rock with few qz eyes (1mm) and fspar - tr. pyrite
- almost looks like sed. across hillslope

* want to cut piece tonight

8 E, 5 N

Hand Sample - crowded fspar ~~pb~~? Kettle R. tuff sst
- fspar porphyritic, ~5% biot. in f.gr. grey matrix
- no visible qz eyes

pyx weathered out [or biot?]

Marron volcanics - small fspars - pyx phyrice

hand sample

- nearby fspar ~~pb~~ - larger biot. phenocrysts than down slope

- contact volc / intr.

- possibly the finer-grained stuff is version of coarser stuff above

- fol. ~ 178/56 W

208/62 W

Sample BCS15204

- finer-grained, dark matrix fsp~~ar~~ p~~o~~
foliated 250/45
254/54

Kettle R.
- Rusty, qz-carb altered feldspar p~~o~~?
- can't really tell prob lith - too altered

8+05E Listwanite with remnant
9+75N magnetism

9+40N feldspar p~~o~~ - foliated, weathers
8+75E crumbly; dull colour

10+00E Foliated feldspar p~~o~~
8+10N Cross-cutting foliations
268/66
178/50 W

10+00E Foliated feldspar p~~o~~ on
8+00N opposite side of small gully
255/67 NE predominant
- looks like intrusive contact w siltst.
- grey siltstone bedding
bedding 049/70
- siltstone visible on either side
of narrow gully, so probably →

darker

siltstone

lighter

sandstone

-? could be overturned
flame structures?

Sample BCS 15205

Sample 5+50E
14+50N

recessive unit, mainly eroded
away

Baseline area

Bedding: 040/47 - interbedded sst/siltstone
050/46 above road

"Y" in road - contact of Marron volc.
and interbedded seds
volc E/seds W

Contact $\sim 053^\circ$ dipping E 75°

May 10/91 Rainbow

Interbedded Seds

Line 5+50E Cherty sediment

14+50N - varying shades of gray to
black (could be argillite
mixed in)

- finely laminated

5+50E - med green coloured rk

14+50N with 1mm \rightarrow 1cm qz veinlets

- probably sedimentary

- silicified sed w phyllitic sheen
to layers (siltstone?)

Bedding : 286/42

Gully $\approx 170^\circ$

Sample BCS15206

[joint] Cleavage: cross-cutting bedding, layers seem
down-dropped few cms on
E side

measurements
vary all over
the o/c

}	022	166
	036	160 E
	272	167

Bedding: 280/28 downslope - but
could be disrupted block

6+25 E

12+50 N

023/70

Bedding on seds: 020/70 E

Interbedded siltstone, sst / cgl

[joint] Cleavage 252/58

080/78

286/76

6+00 E

Foliated list.

11+25 N

Remnant magnetism

5+40 E

Intrusive - green-grey colour

11+50 N

qz phenocrysts up to 4mm

biotite in one piece

purple phenocrysts

-porphyritic?

Sample BCS15207

11+35N

6+00E

Sample BCS15208

6+45E

10+75N

Sample BCS15209

6+50N

6+35E

- list cleavage 364/60
but could have moved
- foliated listwanite

- Q2 / carbonate vein in listwanite

Intrusive rk - almost feldspar porphyritic; biotite 5%; prismatic pyx?

- blocky
- grey colour, fairly dark f.gr. ground-mass

May 11/91 Rainbow - sunny

L 6 + 00E Diorite - carb. altered,
4 + 50N brown feldspars

- med gr., generally dk green colour when wet

- to S. end of dk, rx become sheared up, fragmented, with fine cc veining ~ 268/55 NE along fracture surf's

Joint: 188/65 NE
278/72 NE on E side of d/c

- fine qz microveinlets

6+00 E, 5+50 N

Joint 288/88

Sample BCS15210

Sample BCS211

Dior - qz-carb alt.

5+50 E

- slightly magnetic

5+75 N

Sample BCS15212

8+00 E

Listwanite

11+00 N

6+00E conglomerate: bedding 020/72 E

6+00N very coarse - cobbles/boulders
- sst in places; coarse sst
matrix

bedding 192/64

8+00E magnetic serpentinite

10+25N Fd ~ 319/066

300/058

8+00E Highly foliated vK - weathers

13+75N into small frags from

cross-cutting foliations

Volcaniclastic?

- carb-altered; fizzes

- biot., feldspar in f.gr.

matrix [looks speckled]

- grey colour

Sample BCS 15 213

Jointing 018 [v shallow E-dipping]

122 vert.

Sample BCS 15214

- same as above but bleached;
rusty on fracture surfaces

Sample BCS15215

Sample BCS15216

Sample BCS15217

Sample BCS15218
BCS15219

Sunday, May 12/91

Rainbow - overcast

L 16+00E

Diorite - grey colour

10+50N

F.gv. biot. flecks in fspar matrix

L 15+25 E

12+25 N

? Marron Fm - volcanic

- pyx phytic; pink-rimmed,
A. white zeolites; f.gv. matrix
(black+white mix) - overall dull grey
coloured rK
- foliated

16+50 E

18+50 N

Joint 240/47 in Marron volc.
134/72

16+50 E

18+60 N

Marron volc.

- fizzes slightly with acid
- chl/ep. alteration of fspars

- contact w seeds [seeds on top]

16+00E / 19+00N } Marron volcanic

16+50E / 19+00N }

#18 - magnetic + cc

#19 - epidotized fspar; pink alt. to matrix
+cc +magnetic

BCS15220

BCS15221

BCS15222

May 13/91 Rainbow - overcast
L 12+00 E Marron volcanic
23+75 N - carbonate altered, cc in vugs
- epidote altn. of fspars
- fspar weathers white on exposed surface

- old grid - orange / blue
99 E / 18+00 N

L 12+00 E v. f. gr. muddy Marron volc
20+75 N - lacks phenocrysts
- meas. joint: 247/44

However, highly fractured in multiple directions

Fault? 192/29 - but probably just jointing

12+00 E Chalcedony vein in Marron
19+75 N volc.; marron and blue colour, ~ 5 cm wide
- epidotized

12+50 E ? felsic Marron dyke
18+00 N weathered biotite
fspar matrix

BCS 15223

BCS 15224 — Sed

BCS 15225

BCS 14026

12+00 E

Dior. [magnetic]

15+75 N

12+20 E

? Diorite - carb / ep. altered

15+35 N

12+35 E

Seds 04/37

15+00 N

Siltstone, f.gr.

May 14/91 Rainbow - Sunny

15+20 N

Contact of cse-gr

13+00 E

diorite and very

f.gr., green-grey microdior.

15+05 N

Feldspar porphyry

12+35 E

- f.gr. felsic / mafic matrix
w fspav phenocrysts 1-4mm
+ biotite

9+90 E

Hornfelsed siltstone

11+05 N

-sst; rusty

10+05 E

Feldspar po diorite

12+25 N

-4mm fspav phenocrysts

in dark grey matrix

h.s.

-slightly magnetiz

-fizzes

BCS 14028

Contact intr/seds [rusty seds]

~ hornfelsed

Seds ~ 027/4

- intr. on top and below seds

? - could connect w top of line 10

11+25E

13+50N

BCS 14029

Altered intrusive

14+15N

- green-grey colour; calcite

10+15E

BCS 14030

Altered intrusive

- green-grey; cc

contact with seds

BCS 14031

- Mavron volcanic

- fspar phytic on weath. surf.

- brown matrix or mason if weathered

BCS 14032

- Mavron volc.

BCS 14033

14+25 N Crowded fsp + po

10+00 E Marron dyke?

-h.s - weathered biotite,
mainly feldspar, crumbly

14+25 N Marron volc?

10+15 E Feldspar porphyritic in
extremely f. grained, maroon-
weathered, tuffaceous matrix
-foliated

May 15/91 Rainbow - overcast

L12+00 E Contact of fol. Marron volc.

28+75 N and extremely f. gr., brown
[maroon-green] clastic or
volc. flow [h.s.]

L14+00 E - Feldspar-phyric Marron volc

24+75 N - dull grey-brown, f. gr. matrix
-weathers pink; biot.

BCS140B4

14400E

19+75N

? Kettle River sst

Athelstan - May 16/91

0+52 W

298/14 - Fault

0+35 S

Joint: 124/62

0+50 W

Joint: 052/90

0+50 S

0+50 W

Fault 274/054

1+00 S

030/vert

Main Fault 084/010

Parallel joints 215/52

~ ~ ~
0+45 W Fault: 143/42

1+20 S

Joint: 107/86

Fault? 316/80

Fault: 288/74

Joint: 060/90

~ ~ ~
1+65 E

0+75 S

2E adiA at side of road

1N Joints: 023/88

240/90

~ ~ ~

Fault 130/54

(2cm wide)

Joint 154/64

Shear zone 058/12

Fault 063/68

Foliation 179/38

198/16

177/22

~ ~ ~

carb-alt Serp.

fol. : 178/28

~ ~ ~

qz veinlet in list. : 280/34

- by BCS 13999

approx 3mm wide

~ ~ ~

320/90

qz veinlet

268/88

joint 1

204/80

joint 2

094/44

? fault

38 → 146 slicks

by sample # BCS15268

May 17 1911 - Athelstan

0+80W / 1+255

063 / 60 Fault

1+50W / 0+505

Foliation: 350 / 028

+ vein

Fol: 285 / 050

Fault: 325 / 54

~ ~ ~ ~

Fol: 028 / 30

Places and samples to check:

Line 8 13+50 → 15+00 N F. 219/46 ?

10 14+00 N - slicks

* sed. zone in betw these lines

-clarify

L 12 15+00 N - dior/sects?

↓ 18+00 N ? BCS15222

14+50 E 13+10 N - dior? at
side of rd.

B/L 15N from 10 E → 16 E

check dior

16 E; 14 → 15 N dior?

16 E; 17+50 N dior?

Roads 18 E; 16 N - dior? BCS14039

? cut BCS14040 ?

1MTML001

Tam. S. N. Grid June 3/91

Sunny L45, 65

L6+005 / 5+25E 1MTML001

- cgl/bx + sst

- qz and chert clasts, some silicified arg
plus softer frags

- silicified; red colour

- clasts 1mm \rightarrow 15mm

- clast-supported

- black staining occurs w 2° qz crystals
along fracture planes [Mn?]

7+155 / 3+90 E 1MTML002

Strongly altered sst - bleached

2° qz in vugs, along fractures

fine 1-2 mm veinlets of qz

jarosite + hematite

6+105 / 2+75 E 1MTML003

Grab sample of cgl with 1-3 mm

qz veinlets, some crystalline qz along

Amphibolite sandstone

- hblde crystals 1mm-1cm in a med. gr. clastic matrix

f - med. gr. grey intrusive ^{or Marron flow} w biot, fspw phenocrysts

? same as 14040/14042 ?

- fspw weather prominently
- extremely hard, blocky, hard to break

May 25/91 Rainbow - clouds, hail, sun

- L 24+20E / 28+50N

BCS14045 - cse fspw - phytic Marron flow
- ep fspw, red colour along bands;
2° qz in vugs

BCS14046 - med. gr. fspw - pyx - biot - phytic Mn
- ep. + faint green-blue [emal-az?] on surface

BCS14047 - med. gr. fspw - biot - phytic Mn
- chalcedony - banded - infilling vugs
+ cc at cores

May 26/91 Rainbow-overcast

BCS14048 29+90E/29+15N

- Marron volc flow

- fspars-biot phyrlic; fspars look
potassically altered [pink]

- 2mm qz-cc vein

BCS14049 31+60E/26+75N

- Marron volc. flow

- med-cse gr. fspars phyrlic

- red weathering stringers

May 21/91 Rainbow-Sunny

"y" in road is not contact between
Marron and seds, rather, sh-sst contact

18+25E / 15+75N

Diorite [silic.] or

BCS14039 silic. sed - well indur-
ated and blocky; very hard to
break

BCS14040 17+75E / 19+10N ? Rock type

- f. gr. grey matrix; vugs w pink-
rimmed cc; biotite ~ 5% 1-2mm

BCS14041 17+75E / 20+75N

Marron volc; ccted, highly
weathered on surface

- vuggy

May 22/91 Rainbow-sunny

- road vece first thing in AM

- Line 20+00 E; 29+00 W

BCS14042

Fine-grained, grey intrusive

- fsp phenocrysts - same as 14040

- E side of gully / fault

- possibly sheared - breaks into
chips

BCS14043

18+90N / 20+75E

BCS14044

24+05N / 24+05E

23 N B/L 12E →

Rainbow - May 19/91 - overcast
Mapping by myself

18+10 E / 28+75 N

BCS14035

Marron volcanic

- maroon matrix; Aspat-phyric
biot.

Rainbow - May 20/91 - sunny

14+00 E / 16+00 N

BCS14036

Kettle R. sst?

- possible intrusive; blocky
- mainly feldspar + biotite, med gr.

14+00 E / 18+55 N

BCS14037

- altered sed's w cc, epidote

✓ L18+00 E 15-29 N 28 E 23-29 N

~~19-23 N 20+00 E 19-29 N 30 E 23-29 N~~

~~22+00 E 20-29 N 32 E 23-29 N~~

~~24+00 E 21-29 N~~

~~26+00 E 22-29 N~~

BCS14038 - seds w cc veining

1800 E

1200 N

fracture surfaces; also orange-red on fracture surfaces

1MTML004 2+25E
6+50S

? mafic volcanoclastic

? dior ← dk grey-green colour
slightly magnetic
some cc

fine [0.5 - 1 mm] black frags
in green chlorite matrix

fine greyish veinlets 1-5 mm

1-2 mm fsp phenocrysts in some

? flow ← pieces

6+00S / 1+35E

ssst - salt and pepper colour

fsp phenocrysts predominant
[to 3 mm]

cc crystals
tr. epidote

1MTML005 MV

Tarn - South part of N. Grid

June 4/91 sunny

Mapping by myself

L6; L400S, check out dior/Mnflow at
L600S / 2E

5+80 S / 6+00 E

IMTMT006

- conglomerate; silicified

+ qz veins 2-3 cm wide with
vugs 2-3 cm filled with maroon
qz crystals

- orange limonite

- few wallrock bx frags in veins

- speck of fuchsite / mal in qz

± green scorodite along fracture

* Grab sample but probably hasn't
travelled far

1 cm epidote veinlet

black Mn staining on qz

IMTMT007 - Grab

- conglomerate; silicified + 1 cm qz veinlet
and fine qz crystals in vugs

- limonite; tr. fuchsite + white ser/Kool.

1MTMT008

sst-cgl

bleached; crystalline g_z on fractures; maroon selvages to fract's; limonite/jarosite

1MTMT009 4400E/4755

sst-cgl

cryst. g_z in vugs, along fractures
hem. staining

[cubic] 1mm black crystals ?
limonite

L4S/2E edge of cliffs: 302/54 - fold limb
or bed. in sst

L4S/0450E 1MTML011

- fspar-phyric MV
- jointed; easily broken
- quite altered - matrix is bleached; pale green colour

4+255/25E MV 1MTML012

June 7/91 Tam-S extension, N-Grid

Mapping in the rain by myself

5+75E/8+25S IMTMT013

Conglomerate, med. gr., clasts

1mm → 30mm; mainly chert
plus silicified arg + volcanics

- pervasive silicification; minor

2° cryst. quartz along v. fine
fracture surf's (1mm)

- limonite, jarosite on frac's

- 1-2mm pyrite (black) striated cubes
along frac's

- corrosion of less resistant volc's to
form vugs

- tr. light green mineral - chl or fuch.

- ser around edges of clasts

- some Mn stain on frac's

8+80S/3+25E IMTML014

Marron volc - silicified; chloritic matrix
+ cc; feldspar phyriz

- very blocky, hard to break

1MTMT015 8+55S / 0+75E

- Quartz vein float
- red staining along frac's + limonite
- some crystalline qz in vugs
- few silver-grey ~cubic crystals and specks; fairly soft - can crush easily
- ? scorodite in vug - yellow-green colour, massive

Sunday, June 9/91

Mapping S. end of N. Tam Grid

By myself; partly sunny

Lines 105, 85

1MTMT016 10+05S / 4+95E

Conglomerate; f-med. grained, mainly siliceous clasts.

- (minor)
- 2° qz crystals along fractures and in vugs; limonite, hematite stain
 - red-black mn. stain along qz
 - green epichlor on fracture surf.

1MTMT017 0+35E / 10+60S

MV - spar - pyx? phynic; spar agglomerates; green alt. pyx; CC; maroon coloured, aphanitic matrix; yellow

carb alt. to some of feldspars

IMTMT018 9450S / 3400E

- MV- feldspar phytic + cc in vugs
- blocky, silicified + green (chl) alt. matrix / spars
- tr. mt.

IMTMT019 3475E / 9475S

- Grab - Sugary, white qz vein
- some greenish-yellow coating

Monday, June 10/91 S. part of N. Tam Grid
Sunny and warm - Lines 8, 105

IMTMT020

- Grab - 9400E / 7435S

- strongly altered, brecciated?
- sst-cgl with Mn, hem, limonite coatings

IMTMT021 7410E / 9490S

- cgl + lim. + tr. fuchsite

June 11/91 North Tam Grid
Road Mapping by myself
Sun and Showers

1MTMT022 26+40N / 2+80E

Silicified seds' subcropping in
road. Tr. py; limonite abundant.
Ser?

1MTMT023 27+10N / 4+20E

Silicified seds + lim

1MTMT024 MV gouged up, red colour

Wednesday, June 12/91

North Tam Grid - road mapping
Sunny + clouds

1MTMT025

Conglomerate, silicified - sugary white qz
Hematite / limonite stain

- poorly sorted, clasts 1-40mm,
fairly angular

1MTMT026

Conglomerate, silicified - sugary
white qz; limonite stain

Thursday, June 13/91

Tam North Grid road mapping
Sunny.

IMTMLO27 Diorite; med. - fine grained
Relatively unaltered; minor
cc. Epidotized microveinlets,
very fine, along which dissem.
mineralization appears concen-
trated. Magnetic; ~1% dissem.
magnetite. <1% dissem. cp. Tr. hem.
along fractures.

Tuesday, June 18/91

North Tam - road mapping
Sunny

IMTMLO28 - Diorite; strongly altered
- qz, chlorite, K-spar? or pink qz
- very felsic; 2° qz? mafics are
chlorite-altered.
~1% cp - dissem.
2% py - dissem.
- microveinlets of cp, py
- cc along fracture surfaces

- limonite

- possibly float; pool exposure at side of road
- tr. mt in places

1MTML029 - Awesome rock; diorite

- extensively fractured in cross-cutting, stockwork fashion
- qz (pink) veinlets 1-3mm wide with cp blebs, dissem.
- cc veins to 2 cm wide, with cp, specular hematite (10%)
- extensive chlorite, also with veinlets
- crystalline qz along fractures

9+70 E / 15+10 N

(1)

- fault ~ 0.5 m wide
trending 260 / 49

- veins of cc/qz + chlorite - probably pre-faulting

(2)

fault ~ 10 cm wide, trunc. by fault (1)
trending 174 / 016

IMTML030 Diorite

- sampled alongside fault
- felsic - altered - 2% qz; chloritic
- altn. of mafics
- tr. malachite; < 1% dissem. cp
- pinkish qz in veinlets

IMTML031 Diorite

- 2% disseminated sulfides - cp, py
- extensively fractured/jointed area
- chlorite; ser?
- magnetic in areas due to dissem. mt.
- limonite

IMTML032 Diorite

- stockwork qz veinlets 1-4 mm (5%)
- slightly magnetic; tr. dissem. mt.
- 1-2% dissem. cp, py - mainly along fractures
- chloritic altn; cp. along fractures

IMTML033 Microdiorite

- boulders beside road
- magnetic; mt. + chlorite

- pink cc on fractures
- fine veinlets (1mm) w epidote
- cp dissem. and along frac. surfaces.

1MTML034 microdiorite + mt., chlorite

- cc on fractures, pink in areas.
- cp < 1%, py
- hematite (red) occurs on frac's, w cc.
- boulders beside road.

1MTML035. microdiorite

- mt + cp + cc
- rusty; massive, black

1MTML036 Tertiary seds?

- highly foliated in cross-cutting directions; so strongly weathered it's almost impossible to tell what it is.

IMTML037 microdiorite + mt., chl
cc, cp/py from old dump

IMTML038 microdiorite, from trench

June 19/91 Tam-North
Overcast

IMTML039 - Silicified Conglomerate
- patches of greenstone / Volc
Component

IMTML040 - Silic. cgl (greenstone / Volc)

IMTML041 Diorite - along road [o/c]

IMTML042 Diorite - from dump
along road
+ Mo?

IMTML043 Diav- o/c - magnetic
- well fractured

June 22/91

Rainbow - resampling Au
anomaly

1MRNL053: interbedded sst/
shale; shale rusty in areas
and brittle

9+90 E - not as rusty as BCS/4026

11+05 N - generally dk. grey colour; some bleached
yellow / rusty areas.

- tiny 1mm pyrite cube in
one piece

- small 2m x 2m o/c, in
dip in topography - gully
could be due to erosion
of seds in between more
competent rx.

35 m at bearing 340° from 10+00E,
11+50N

1MRNL054 Maroon flow

- med → cse grained, grey
colour; feldspar laths ~ 30%
- carbonatized + 1mm cc veinlets;
pink colour to veinlets; also vugs
of cc with pink / purple rims

⇒

- mildly magnetic
- mild chloritization of fspars

1M RNT055 - Kettle River / SST

July 1/91 Tam - East Extensions
Mapping - sunny

L28+00 N

10+75 E

1CTMT063

- v. f.gr. dk. grey rock, magnetic
- very hard, silicified
- ? mafic volcaniclastic?
- epidote veinlets, py, cp as diseminations along fracture surfaces and in veinlets.
- rusty

1MTMT053 25+95N / 10+58E

- extremely f.gr., dk grey to black rock
- cherty white qz veining, plus pinkish qz veinlets
- pervasive mt assoc. w f.gr. qz; mt envelopes around pink veinlets.
- up to 5% py on fracture

Surfaces and as disseminations

- epidote ~ 5% - veinlets
- rocks at side of skidder trail
- on weathered surface, silicification shows up very distinctly as white veinlets

? could be biot-hfts?

July 2/91 Tam-East extensions
Mapping - warm and sunny

L 20+00N / 11+90 E

ok in road

1MTMT054 - Boulder at side of road, probably close to source.

- Diorite - light green colour, strongly carb-alt.
- qz veinlets 1-2mm, epidote (pale) veinlets to 1cm
 - cp as dissem, and fracture coatings, 2%
 - mal, dendrites; chalcocite?

19+90N / 11+85 E 1MTMT055

Diorite - weakly magnetic, mafics chloritized. Fe-ep veinlets w dissem.

py, tr. cp

- brown envelopes to some 1-2mm veinlets, w dissem. py. LKDR?

- tr. mo or mt?

1MTM056 → E. side of fence
- diorite from
old pit

- mild carb. altn.; leucocratic,
with chloritic altn. of mafics.

- cp ~ 1% along fractures ~ 1-2mm
wide; malachite, calcite envelopes.

- fairly pale green colour

- mt in 1mm veinlets

1MTM057 - diorite? completely
altered; white colour, carb altered-
fizzes, scratchable

- can see gradation into less
altered diorite, with chloritic
altered mafics, in sample

1MTM057

- old pit

- sericite coating one fracture
surface; few pale green spots

1MTM058

20 m up road from gate to wild Rose
and southern extensions

- diorite - extensively altered

- mafics chloritic

- 2° qz eyes 1-2mm
- feldspars look greenish-white, opaque, albitized?
- trace mt
- leucocratic, much more felsic than other samples so far.
- sericite along fractures / vugs
- mild carb. altn.

July 3/91

1MTM059 - sample taken from
Doulders beside road

- completely chloritically altered / sericite - green colour, brecciated fragments with qz and drusy quartz surrounding fragments
- some qz-lined vugs
- ~1% py; rusty
- small blebs of black metallic mineral in drusy qz

1MTM060 - pale green dr. + mal
+ tr. py, cp; non-magnetic to weakly magnetic; albitized?

- granular-looking, med. grained
- weak carbonate altn; SX along v. fine veinlets and as dissem.

1MTMT061

- massive magnetite + tr → 1%
- dissem. cp
- old trench
- extensive malachite, azurite

1MTMT062

- altered wallrock around mt-cp vein

1MTMT063

- diorite, next to road
- med. H. green, chloritically altered
- calcite
- weakly magnetic
- tr. cp?

July 5/91 Recce mapping at Tam

Sunny

Lines 18+00N

22+00N

July 7/91 Recce mapping at Tam

Sunny

Lines 4+00E, 2+00E - connecting

north and south ends of

Tam grid

1:5000

1MTMT064 - Diorite or mafic

intrusive, dark green colour

- carbonate along fractures and
in groundmass

- tr. pyrite, dissem

- west of silicified zone, on
Knob.

1MTMT065 - silicification - extremely
hard, aphanitic

- pale yellow coating (lim/jar?)

- pale green coating around pyrite
cubes and weathered-out py cubes

(< 1% py)

- rusty, black and red coatings

1MTMT066 - diorite?

- taken from dump near adit

- silicified; rusty - hem/lim

- pyrite ~1%

- very hard, well fractured

- magnetic

July 11/91 Tam Reece - roads

1MTMT067 - Marron volcanic

- outcropping on knobs above road

- crumbly, weathered

- feldspar / biot phytic

- pale blue coating

Mule 12, 13 FP
500 m from LP
4307
MV

July 12/91 Tam old grid - mapping
road → 4 Sunny

8 0 → 4

7

6

Cambo - working from 0 → 6

1MTMT068 7+65N/4+15E

Epithermal silicification ? qz hfls

- o/c at side of overgrown rd
- could be Boulder
- disseminated SX - py, cp < 1%
- sx surrounded by black altn.
- limonite on fractures
- fine microveinlets and 1-3mm veinlets with drusy / crystalline qz

1MTMT069 7+65N/4+30E

- adit into hillside, beside road
- extensive epithermal silicification

- probably high-grade vein mined out ✓
- sample taken of silicified, altered wallrock
- heavily fractured, 1-5 mm veinlets with crystalline/drusy qz
- 1-3% dissem. sx - mainly pyrite
 - pyrite also along veinlets (1mm)
- dull grey areas of v.f. gr. sx - powdery
- extensive limonite, plus pale yellow powdery coating
- some fault gouge or highly altered wallrock.

1MTMT070 Dump material from adit below road

- qz vein 3cm in ? wallrock
 - cp 2%, py 2%, tr. hematite
- grey sx; very rusty - limonite ± jarosite
- moly 4% in vn. material

1MTMT071 - altered wallrock from dump outside adit

- biotite ? hornblende? ~10%
- pale green groundmass - soft, cc-alt.

-tr. azurite

-? cuprite - bright red/coppery, metallic

- figr. dark grey powdery sx

- pyrite + cp - dissem. to 3%

- cc veinlets in red (k-span?)

alt areas

- med. green coloured mica

- moly as coating

- Some extremely bleached areas

- 243/38 - pervasive jointing

IMTMT072 - sampled on W side
of trench into adit

- green extensive chloritization
of wallrock, + very soft, pure
white mineral that doesn't fizz

- pyrite 1-2% as fracture
coatings and disseminations

- rusty on fractures

IMTMT073 - extremely bleached rk,
similar to that above entrance
to adit - sampled from dump

- white with remnant chloritized

mafels

- qz veinlets 1-2 mm
- pyrite 1-2% on fracture surfaces

1MTM1074 - very fine-grained, med. dark grey-green clastic rock?
- carbonatized; tr. pyrite or and?

7+45 N / 3+60 E

~~~~~

6+75 N / 3+90 E

- trench with highly altered, gouged-up wallrock
- don't know what it is
- jointing? trends 347 / 84  
127 / 16

- some of altn. similar to that seen in trench to north
  - very bleached; other areas extensively chloritized
- hand sample of lesser-altered wallrock

1MTM1075 3+05E / 6+05N

- subcrop of amphibolite? - same as sampled on recce traverse on knob next to silicification

- probably hornblende crystals  
~80%

- carbonatized; pyrite ~2%  
disseminated in siliceous  
matrix, and along fractures

- also finer-grained sample  
with no crystals evident

July 13/91 - Remapping Tam '90 grid

- partly sunny

Lines 4+00 N, 5+00 N

- check for dyke, qz vein at  
East end of lines

Δ IMTMT076 2+25E / 4+90 N

- qz hornfels or ep silic from  
large o/c on knob

Δ IMTMT077 3+75E / 4+95 N

- pure white sugary silicification  
- contact ~043/51

- fine drusy qz on fractures

? qz hornfels

4+00 E / 3+75 N

- chert? h. sample

+ med green colour, very siliceous  
and hard

- pyrite - dissemin. and along micro-  
veinlets w. qz

- could be silicified andesite?

IMTMT078 - silicified andesite / chert  
as above

IMTMT079 - next to pit  
- andesite? + py, rusty

IMTMT080 - qz vein? + sx  
↓ rusty

July 14/91 - Wild Rose - eastern extensions  
10+25N / 13+60E

IMWR001 - Diorite from pit  
- heavily carb - altered - calcite  
veinlets + hematite  
- weakly magnetic in areas

- feldspars pale pink  
- pyrite in veinlets (+mt)  
- epidote veining

IMWR002 - diorite exposed in roadcut  
- dissemin. mt, py, cp - also along frac's

- trace of malachite
- outcrop strongly fractured
- rock is hard to break
- Carbonatized ; rusty

IMWRT003 - Sampled to E side of  
small (6") fault zone in  
diorite in trench

- rocks well-fractured, rusty

IMWRL004 strongly qz-carb alt dior

- orange stained, pink groundmass
- Some malachite
- pervasive calcite

July 15/91 no book

July 16/91 - mapping Tam South

-eastern extensions

L2400S 16E → 22E

L0400S 5E → 22E

IMWRT013 1485S / 17460E

cht-pebble conglomerate

-top of knob above '91 trenches

- fairly fine-grained
- red-orange limonite stain + powder

- some drusy qz in veinlet (minor)

1MWRT014

- chert kst breccia at base of cliffs
- near trenching

- much more angular clasts than chert-pebble conglomerate

- not as well indurated

- very rusty - limonite

- range of grain sizes from 1 mm to 10 cm

- goethite

1MWR1015

? greenish coloured rock

- abundant calcite - veinlets and pervasive

- tr. pyrite

- fine-grained

- could be andesite?

1MWR1016

? green rock, same as 1MWR1015

- lots of calcite, also trace dissem. py

- more cc, py than 1MWR1015

292 /45 - contact between chert  
and carb-altered rock

July 17/91 Wild Rose mapping - rainy  
Line 0+00N 5+00E → 27+00E

1MWRTO17 Epithermal silicification

- trace dissem. pyrite
- extensive limonite, boxwork-textured, powdery
- some drusy quartz in cavities and along fractures
- red Mn stain
- powdery green and yellow coatings around sx, in cavities

1MWRTO18 Epithermal silicification

- very good ep. textures
- fractured; drusy qz along fractures and in vugs
- colloform banded qz in vugs
- trace pyrite
- limonite, Mn stain
- boxwork textures, to powdery coatings

- green and grey coatings as well  
- possibly some arsenopyrite

scorodite?

1MWRL019 - ? O+15S/6+95E

- similar to amphibole gabbro
- mineralized and extremely rusty
- 3-5% pyrite - dissem. along frac's
- sericite? assoc. w rusty areas
- exposed in roadcut or old trench
- limonite
- not sure what rock is - want to cut it

1MWRL020 - ? amph-gabbro

1MWRL021 - ? amph-gabbro  
exposed in roadcut

1MWRL022 10+60E 10+30N

- single ore containing chert
- + unknown pale blue-green rock + amph-gabbro (aphanitic)
- tr. pyrite
- very hard

1MWRL023 - near to 1MWRL022  
- coarser gr. amph-gabbro + py

1MWRL024 - thought it was

amph-gabbro but has

.5 -> 1cm feldspars (subhedral)

1MWRL025 - fine-grained amph-gabbro

+ blebs of pyrite, plus rusty areas

w sericite? and pyrite cubes

- 1 piece has malachite stain and

pyrite in 0.5 cm QZ veinlet

- appears to be associated with

very fine-grained siliceous sed (chert)?

Friday

July 19/91

Sunny - mapping Wild Rose

Line 0005

Tonight: Do all plotting - Wild Rose

Sample descriptions - Tam E extensions

Tam '90

Wild Rose

Cut all rocks.

To do: Finish Tam '90 map - Confer w Cam

Read pø papers, make notes

Sample diorite near anomalies

on Tam eastern extensions

1MWRL026 | 0+25 N / 16+15 E

Volcanic flow? or dyke

- feldspar - phyrlic - about 15%  
4-10mm feldspar laths and 5%  
1-3 mm biotite in a finer-grained,  
dark grey matrix of biotite and  
feldspar.
- weakly magnetic; pervasive cc  
in matrix

1MWRT027 - epithermal silicification  
(of chert-cgl)

0+35 S / 15+25 E

- old pit - wallrock sampled
- appears as if high-grade vein  
trenched out.

- extremely rusty; 2-5% pyrite
- yellow, grey powdery areas

1MWRT028 - qz vein from old pit

- ~5% pyrite - disseminated cubes
- very rusty; powdery grey sx
- pyrite occurs throughout rock  
and along fractures
- Some 2-3mm frac's have  
qz crystals growing along them
- boxwork limonite

1MWRL029 Amph-gabbro

- fine-grained
- calcite and green garnet?  
or epidote  
on fractures
- dissem. pyrite
- ~1% cp locally + mal (trace)
- also looks like cherty areas!

? What's going on?

1MWRT030 13+50E / 0+05S

- cht + epithermal silicification
- 3-4mm fluorite crystals (cubic)  
along fractures, and in vugs
- trace pyrite
- limonite
- low fracture density

July 20/91 Wild Rose - mapping

Lines 0+00, 2+00S

Hot and sunny.

1MWRL031 22+20E / 0+25N

Hornblende diorite

- fine to medium grained
- few 1-3mm qz eyes
- fairly fresh appearance
- carbonatized

1MWRL032 22+20E / 0+25N

- pyritiferous argillite
- aphanitic, black, massive
- occurs underneath intrusive rock, contact appears ~ 339/88 but could be at core of fold as doesn't seem to be continuous upward (intrusion curves over top of arg.)

### 1MWRL033

- medium to light green-grey rock
- strongly carbonate-altered
- relict feldspar laths and amphibole pyroxenes
- pyrite cubes
- calcareous phyllite nearby

- limestone - 070/53 - bedding determined from resistant-weathering ridges

1MWRT034 - green chert from base of cliffs  
- strong cc veining

July 21 / 91 Mapping Wild Rose

Sunny

Lines 28+00 → 18+00 N

12+50 E → 15+00 E

1MWR1035 27+75 N / 15+00 E

- wallrock of adit into hillside
- not really too sure what it is, must cut a piece
- medium green colour, fine-grained
- streaky appearance - white bands
- possibly an andesite

1MWR1036 25+80 N / 15+10 E

Diorite from old pit

- disseminated pyrite 2%
  - hematite on fracture surfaces
  - weakly magnetic
  - carbonate along fractures and in groundmass
  - cp < 1%
  - rusty
  - epidote along some fractures
- 1MWR1037 25+65 N / 14+75 E
- andesite / microlite
  - from old trenching
  - aphanitic

- pyrite ~2%
- very rusty in areas
- epidote

1MWRT038 23+70N / 13+35E

- sugary silicification; stained pink in areas, otherwise white
- 5% - 10% dissem. magnetite
- malachite, azurite ~5%
- disseminated pyrite + cp ~3%
- sampled from dump by old pit.

1MWRT039 23+70N / 13+35E

- Sample taken from old pit
- "high-grade" mt-py-cp in silicified (sugary) rock
- stockwork fractured; epidote along fractures to 10%
- epidote crystalline in places
- calcite veinlets
- extremely rusty

1MWR L040 13+75E / 22+40N

- old pit
- very rusty mcdp (andesite)
- pyrite 2-3%
- limonite, tr. jarosite
- Some very fine acicular, green crystal growth (2mm) occurs around py.

Still to be done:

L 12+00N      12+50 → 22+00E

2+00S      24+50 → 27+00E

0+00S      23+00E → 27+00E

Cam } 4+00N      4+00E → 27+00E

6+00N      4+00E → 22+00E

8+00N      4+00E → 22+00E

\* Sample L 20+00N - diorite

July 22/91 Wild Rose mapping

L 0+00S and L 2+00S

0+00S / 22+25E

- Very fine-grained green-grey rock
  - Scratchable, probably chloritized
  - abundant calcite on fractures
- However, part of o/c is clastic

\* IMWR1041 L 0+00S / 22+50E

- again, don't know what it is
- overall green colour
- medium grained, → upper part of o/c
- mainly feldspar, chlorite, calcite
- tiny dissem. pyrite cubes ~ 1% ↘ to 50%

1MWRL042 0700S / 23+00E

1MWRL043 0700S / 26+65E

July 31/91 Tam/Wild Rose -  
road mapping by myself  
Sunny

1MWRL044 3+31S / 14+00E

- Sampled boulders beside rd.
- Strongly qz-carb alt.
- orange, powdery - weathering rind
- calcite rosettes, drusy ep. qz
- very hard to break
- don't really know what it is  
as it's very altered; maybe  
an andesitic flow
- chloritic, sheared - looking in  
places - slicks
- one piece has brecciated qz-cc  
frags in chloritic matrix

1MWRL045 4+85S / 13+25E

- very fine-grained, grey to black  
interbedded sst / siltstone / arg
- rusty
- weakly expressed slicks - 22° → 014

[on vertical fault surface]

Bedding 1: 300/67

1MWR1046 - as #45 5+00S/13+10E

- very fine-grained interbedded  
sediments

- rusty

- fine drusy qz along  
fractures; some soft clayey  
clasts

- soft red altered material along  
some fractures.

1MWR1047 5+20S/12+95E

- extremely hard boulder at side  
of road

- fine 1mm stringers of cp, py <1%

- perhaps a biotite hornfels; rock  
appears to be mostly med-gr.  
flakes of biotite, plus qz.

- weakly magnetic

1MWR1048 5+55S/12+65E

- fine-grained, black siltstone/larg  
interbedded

- rusty, appears as if bedding has

been deformed

1MWRT049 5455/12+70E

- conglomerate - clasts 1mm →  
20 cm in arg. matrix
- slickensided surfaces evident
- some rusty patches
- overall black colour

1MWRL050 44855 / 12+70E

tuff / sst

- pale greenish grey colour
- very fine grained
- talc in blebs
- fine black streaky bands

250/59

joint surfaces

200/38

282/75

342/59

216/68

1MWRL051 34255 / 11+40E

- light grey tuff? or siltstone
- fine rusty laminae ~ 1cm  
apart

1MWRT052 - boulder, 10-15% py

34205 / 11+30E

1MWRT053 - very rusty boulder  
from trenching

- pyrite 5% / tr. cp
- argillic alteration

1MWRL054 2+855 / 10+70E

- green-grey, aphanitic  
cherty tuff
- layers evident
- another weird rock

August 1 / 91 Road mapping - Wild Rose  
- sunny -

1MWRL055 2+70 S / 9+30E

- med-coarse grained sandstone; weathered,  
friable. Fizzes. 1-2mm streaky black  
serpentine veinlets

Slicks 53° → 230

on fault plane 248/53

1MWRL056 2+90 N / 9+85E

- aphanitic grey rock, rusty fracture  
surfaces and partings
- hard, massive but scratchable

- v.f. gr. dissem. py ~ 190

- py blebs 1mm along fracture surf.

- contact with chert ~ 130°

- trenched

? maybe an ash tuff

1MWRL057 - same rock as #56

3+30 N / 9+75 E

Joint: 103/131

- fine green-black spots throughout

- trace v.f. gr. dissem. pyrite

- drusy qz on fracture, very rusty, plus py cubes

1MWRL058 5+60 N / 8+45 E

Dark grey-black rock, very fine-grained. Magnetic. Strongly carbonate altered, weathers orange.

J<sub>1</sub>: 180/35, highly fractured

- muscovite around weathered rims

August 2/91 Road mapping - Wild Rose

Sunny

1MWRT059 17+35 E / 13+70 N

Sampled from pt

- Qz-cc-cp vn

30% white to creamy calcite

60% white qtz - massive; pink in areas

- cp + py disseminated ~ 1%

- perhaps bornite

- chlorite, sericite ~ 5-10%

- trace malachite assoc. w cp, chlorite

1MWRL060 17+35E / 13+70N

- diorite wallrock from pit, fractured

- cc vnlts 4 mm, hematitic stain

- tr. dissem py, cp

- tr. mal

- leucocratic; chloritic - alt. mafics

- med. grained.

1MWRL061 14+10N / 16+40E

Diorite - fractured

- less than 1% cp, py on fractures

- tr. epidote on frac's

- leucocratic

- sericitic / chloritic alt. of mafics

1MWRL062 \* 62, 63, 64, 65, 66 - all

from same c/c

14+25N / 16+05E

- leucocratic diorite

- mafics completely chloritic alt. of mafics

- blocky, fractured o/c

- tr mal, dissem sx on frac's

1MWRL063

14+35N / 15+95E

1MWRL064

14+40N / 15+85E

1MWRL065

14+45N / 15+80E

1MWRL066

14+50N / 15+75E

August 3<sup>rd</sup> / 91

- finish 2+005

Sunny

- check 0+005

road mapping

- road mapping - number

at Wild Rose

Samples

1MWRL067

- grab sample of diorite from boulders at edge of landing

- strong carb. altn.

- py-ep veinlet + mal - rusty, limonitic, ~ 1cm.

- leucocratic, strong chloritic altn.

1MWRL068

Diorite - trenched area

next to road; J1: 180/19

J2: 140/13

J2 is also possible fault orientation.

- sampled dump material
- carbonate altered, strongly chloritized - mafics remain only as blebs
- possibly sericite on fractures (or pale chlorite)
- tr. dissem. cp.
- qz veinlets 2 cm
- hematite stain

1MWRL069 Diorite

- leucocratic; chloritized
- sericite on fractures
- orange-stained, highly fractured etc

August 4/91 Mapping roads at Wild Rose

1MWRL070 9+30N / 20+90E

Talc-carbonate altered rock

- abundant malachite assoc. w talc, calcite
- highly altered, very fractured
- disseminated py  $\approx$  2% - very fine
- qz eyes; rock felsic
- orange staining
- dendrites w talc, cc
- small qz veinlets

Possible fault 008/75

- green stain when HCl applied - does this mean anything?

1MWRL071 8+25 N / 21+00 E

- hard, magnetic qz-carb altered rock.
- ~20% pyrite
- rock seems to be mostly qz + chlorite
- high density of veinlets.

1MWRT072 - chalcopyrite - pyrite vein

- massive, in qz
- very rusty, limonitic

8+90 N / 21+05 E

- malachite (lots)
- top of o/c just beneath overburden, ∴ highly weathered.

1MWRT073 - same vein as above

1MWRL074 - altered wallrock around vein

- chlorite, clays + carbonate
- orange

- banded qz-carb veinlets, 0.5-1cm, with inner orange layer.

- few ep blebs in cc veinlet

1MWRL075 Totally blitzed rock  
9+35N/20+85E -carb-altered  
-broken up, rusty

- sericite?
- abundant malachite in areas
- waxy-looking in places
- talc

1MWRL076 20+60E/9+50N

- Totally blitzed, qz-carb altered rock with veinlets,
- sericite banded
- trace malachite.
- very bleached, white

1MWRL077

- Leucocratic diorite, medium-grained black and white colour
- disseminated pyrite, trace cp throughout matrix and esp. along fractures (~1%)
- carb-altered; malachite
- sampled from small pit ~60 m at 006° from 12 N / 16+00 E

1MWRL078

- Bot-holde hornfels?
- extremely hard; dark green

- trace pyrite
- magnetic; hematite veinlet 2mm
- sampled from dump next to adit.

F: 039/79

1MWRL079 Hornfels

+ cc veining, tr. cp, py 1-2%

1MWRT080 - gZ - cp vein

- same old as 1MWRT072, 73

August 5/91 - Road mapping at Wild Rose - overcast

1MWRL081 26+35 E / 2400 S

- ? andesite

- very fine-grained, chloritic

- blue-green colour; cc veinlets

1MWRL082 - limestone / calcareous seds

1MWRL083 - calcareous, fine-grained vk + hornblende or actinolite.

1MWRT084 - gZ - gn-cp vein

hosted in calcareous vk (above)

August 9/91 Richter Recce

Sunny - recce mapping

L 14+00 N / 5+00 E → 1.9 E

1MRRL001 - calcareous phyllite

~ 50% calcite

- 190 pyrite

1MRR002 - Intrusive

Aug 10/91 Richter Recce

- cold and overcast

L16 N, SE

5800'

1MRR003 - siliceous phyllite, folded

+ py

- near ORR005 (quite)

1MRR004 - Intrusive - mildly foliated

- qz eyes, feldspar + pyroxenes

- carb-altered

- massive, blocky, jointed etc

August 12/91 Richter Recce - overcast

Line 18N, SE → 1.9E

- should be 1758 m

1MRR005 - calc-silicate rock, near to calc-schist

- appears to be composed of hbl/d actinolite and calcite

- tr. mal

- varies from dark green

phenocrysts (to 1cm long) in a

Very white, calcareous matrix,  
to a well-foliated, green  
phyllite / schist w/ mm crystal  
growth (Vague)

1MRRL006 - very fine-grained intrusion

- Nelson Plutonic complex

- green-grey colour

- tr. py

- qz eyes 2-3 mm in part

- weakly calcareous

- strongly jointed.

Aug 15/91 Richter Recce

1MRRL007 - calc phyllite / schist

? possible hornblende growth

- next to hornblende / calc. rock

- seems to be gradational, or fine-grained protolith?

1MRRL008 - qz-carb altered schistose  
rock; ankeritic; manganese along  
foliated surfaces; overall rusty  
colour; tr. dissem. sx

L 20 N / SE → 1.9E

starting altitude 1724m = 5656'

August 16/91 Richter Recce - sunny

L 22 N / SE → 1.9E

Start 1693m. = 5554'

1MRRL009 - phyllitic; non-calcareous  
magnetic - ~10% euhedral

mt xfls

- dark colour, fine-grained.

August 17/91 - Richter Recce - sunny

L 20 to 00N / SE → 19E

5095' = 1553m

1MRRL010 - Gneissic seds

- non-calcareous

- muscovite, chlorite

- iridescent purple stain (like bn) to  
part of mica

- fol. 074/35

- cleavage 091/75

- rusty on fol. micaceous surfaces

- finely laminated green micaceous layers /  
white or pale brown siliceous layers

1MRRL011 Qz-biotite hornfels

- rusty; biotite-muscovite

- pieces seem to have some

Qz-musc-fspar intrusion  
admixed

- can see sed. laminae

- very brittle

August 18/91 Richter Recce

Sunny Line 26N/0.5E → 1.9E

Start at 1604m

1MRRLO12 - siliceous phyllite

- qz interlayers - cse gr. qz

- rusty

- similar to 1MRRLO11

# Tam Grid Extensions

August 31/91

|   |     |      |        |     |       |
|---|-----|------|--------|-----|-------|
|   | 10S | 925  | → B00  |     | 15    |
| ✓ | 16N | 1275 | - 1500 | E   | 10    |
| ✓ | 22N | 1525 | - 1800 |     | 12    |
| ✓ | 24N | 1525 | - 2100 |     | 27    |
| ✓ | 26N | 1525 | - 2100 |     | 27    |
| ✓ | 28N | 1525 | - 1700 | ✓ # | 8     |
|   |     |      |        |     | <hr/> |
|   |     |      |        |     | 99    |

16: crosses road connecting N, S grids,  
between gate and landing.

10: try tower road.

| Line | Stn.    | Number   | Colour    | Depth | Moisture |
|------|---------|----------|-----------|-------|----------|
| 28 N | 15+25 E | 1MTMS117 | Beige     | 25 cm | 1        |
|      | 15+50 E | 1MTMS118 | Lt. Bn    | 25    | 2        |
|      | 15+75   | S119     | Grey-Bn   | 30    | 4        |
|      | 16+00   | S120     | Beige     | 25    | 1        |
|      | 16+25   | S121     | Beige     | 25    | 1        |
|      | 16+50   | S122     | Beige     | 25    | 1        |
|      | 16+75   | S123     | Y. Bn     | 30    | 2        |
|      | 17+00   | S124     | Lt. Y. Bn | 25    | 1        |
| 26 N | 18+50   | S125     | Beige     | 20    | 2        |
|      | 18+25   | S126     | Beige     | 15    | 2        |
|      | 18+00   | S127     | Beige     | 15    | 1        |
|      | 17+75   | S128     | Beige     | 25    | 2        |
|      | 17+50   | S129     | Beige     | 20    | 2        |
|      | 17+25   | S130     | Beige     | 20    | 1        |
|      | 17+00   | S131     | Beige     | 20    | 1        |
|      | 16+75   | S132     | Beige     | 30    | 1        |
|      | 16+50   | S133     | Beige     | 30    | 1        |
|      | 16+25   | S134     | Beige     | 25    | 1        |
|      | 16+00   | S135     | Beige     | 15    | 1        |
|      | 15+75   | S136     | Beige     | 15    | 1        |
|      | 15+50   | S137     | Beige     | 15    | 1        |
|      | 15+25   | S138     | Beige     | 15    | 1        |
| 24 N | 15+25   | S139     | Lt. Bn    | 8     | 3        |
|      | 15+50   | S140     | Beige     | 20    | 1        |

| Slope  | Notes:                                       |
|--------|----------------------------------------------|
| flat   | - poorly developed, dry, light col. soil     |
| flat   | - poorly developed soil                      |
| flat   | - wet, clayey soil                           |
| 10°→S  | - poorly dev. soil, dry                      |
| 10°→S  | - poorly dev., dry, ash-like soil            |
| 10°→S  | - taken N side of org. rich gully; ashy, dry |
| flat   | - ash layer; deep colour                     |
| flat   | - dry, ashy soil                             |
| flat   | - dry, ashy soil                             |
| flat   | - dry, ashy soil                             |
| 5°→E   | - very poor soil - extremely dry, ashy       |
| 15°→E  | - poor soil; dry, ashy                       |
| 15°→NE | - dry, ashy soil                             |
| 15°→NE | - dry, powdery, ashy soil                    |
| 20°→E  | - dry, powdery, rocky soil - poor            |
| 20°→NE | - dry, ashy soil - poorly developed          |
| flat   | - poor soil - dry, powdery, ashy             |
| flat   | - poor soil - rocky, dry, ashy               |
| 15°→NE | - poor soil - ashy                           |
| 10°→NE | - poor soil - ashy; sampled 5m W of str.     |
| flat   | - poor soil - rocky; ashy; gravelly          |
| flat   | - poor soil - dry, powdery, ashy             |
| flat   | - base of slope - mod. dev. soil             |
| flat   | - powdery, ashy, poor soil                   |

| Line | Stn   | Number   | Colour | Depth | Moisture |
|------|-------|----------|--------|-------|----------|
| 24 N | 15+75 | IMTMS141 | Beige  | 25    | 1        |
|      | 16+00 | 142      | Beige  | 20    | 1        |
|      | 16+25 | 143      | Beige  | 30    | 1        |
|      | 16+50 | 144      | Beige  | 30    | 1        |
|      | 16+75 | 145      | Beige  | 25    | 1        |
|      | 17+00 | 146      | Beige  | 8     | 3        |
|      | 17+25 | 147      | Beige  | 15    | 2        |
|      | 17+50 | 148      | Lt. Bn | 15    | 2        |
|      | 17+75 | 149      | Brown  | 10    | 3        |
|      | 18+00 | 150      | Brown  | 8     | 3        |
|      | 18+25 | 151      | Beige  | 15    | 1        |
|      | 18+50 | 152      | Y-Bn   | 10    | 3        |
|      | 18+75 | 153      | Grey   | 20    | 3        |
|      | 19+00 | 154      | Lt. Bn | 20    | 3        |
|      | 19+25 | 155      | Lt. Bn | 8     | 2        |
|      | 19+50 | 156      | Y-Bn   | 8     | 1        |

Sept. 1/91 Windy + sunny - Tam soils

|      |        |          |        |    |   |
|------|--------|----------|--------|----|---|
| 26 N | 18+75E | IMTMS157 | Beige  | 25 | 2 |
|      | 19+00  | 158      | Lt. Bn | 20 | 2 |
|      | 19+25  | 159      | Beige  | 15 | 2 |
|      | 19+50  | N/S      |        |    |   |
|      | 19+75  | 160      | Beige  | 15 | 1 |

| Slope | Notes                                  |
|-------|----------------------------------------|
| flat  | - poor soil - powdery, dry, ashy       |
| flat  | - poor soil - ashy, powdery, gravelly  |
| 15° E | - poor soil - ashy, gritty             |
| 20° E | - poor soil - powdery, ashy            |
| 5° E  | - poor soil - powdery, ashy            |
| 5° E  | - poor soil; gravelly; charred frags   |
| 10° E | - poor soil; rocky; gravelly           |
| 15° E | - poor soil; gravelly                  |
| flat  | - side of old road                     |
| 5° NE | - fairly good soil; in clearing        |
| 5° NE | - poor soil - ashy                     |
| 5° NE | - 10 m above creek; good soil          |
| flat  | - 5 m from other side of creek         |
| flat  | - beside road; good soil - below ash   |
| 5° N  | - mod. dev. soil; gravelly             |
| flat  | - ashy soil                            |
| 5° E  | - mod. dev. soil; ashy                 |
| flat  | - mod. dev. soil                       |
| flat  | - ash layer above                      |
|       | - N side of creek - organics + hornets |
| flat  | - opp. side of creek - poor, ashy soil |

|     |       |     |         |    |   |
|-----|-------|-----|---------|----|---|
| 26N | 20+00 | 161 | Y Br    | 8  | 3 |
|     | 20+25 | 162 | Beige   | 25 | 1 |
|     | 20+50 | N/S |         |    |   |
|     | 20+75 | 163 | Beige   | 30 | 1 |
|     | 21+00 | 164 | Lt. Brn | 15 | 3 |
| 24N | 21+00 | 165 | Beige   | 30 | 2 |
|     | 20+75 | 166 | Beige   | 25 | 1 |
|     | 20+50 | 167 | Beige   | 20 | 1 |
|     | 20+25 | 168 | Beige   | 30 | 1 |
|     | 20+00 | 169 | Beige   | 30 | 1 |
|     | 19+75 | 170 | Beige   | 30 | 1 |
|     |       |     |         |    |   |
|     |       |     |         |    |   |
| 22N | 18+00 | 174 | Beige   | 35 | 1 |
|     | 17+75 | 173 | Beige   | 30 | 1 |
|     | 17+50 | 172 | Beige   | 25 | 1 |
|     | 17+25 | 171 | Y-Brn   | 10 | 3 |
|     | 17+00 | NS  |         |    |   |
|     | 16+75 | 175 | Beige   | 30 | 1 |
|     | 16+50 | 176 | Beige   | 20 | 1 |
|     | 16+25 | N/S |         |    |   |
|     | 16+00 | 177 | Beige   | 25 | 1 |
|     | 15+75 | 178 | Beige   | 20 | 1 |
|     | 15+50 | 179 | Beige   | 10 | 2 |
|     | 15+25 | 180 | Beige   | 20 | 1 |

- 5°N - well-dev. soil, below ash layer
- flat - poor, ashy soil
- flat - org-rich gully trending → 149°
- flat - ashy, gritty soil
- 10°E - mod. dev. soil; 50m from fields
- 20°E - poor, ashy soil
- 20°E - poor, ashy, powdery soil
- 15°NE - poor, ashy, powdery soil
- 10°NE - poor soil - ashy, powdery
- 5°N - poor, ashy soil
- flat - poor, ashy, powdery soil
- road between 19+75/20+00 trends 201°
- flat - poor, ashy, powdery soil
- flat - ashy, powdery soil
- flat - ashy, powdery soil
- 5°N - mod. dev. soil
- flat - in creek
- 5°S - ashy, gritty
- 10°E - powdery, ashy
- hornet's nest
- flat - powdery, ashy
- 5°E - powdery, ashy
- 5°E - very poor - rocky, gritty, clayey
- 5°E - very poor, gritty

September 2/91 - cold and sunny

|       |       |          |        |    |   |
|-------|-------|----------|--------|----|---|
| 16N   | 13+75 | IMTMS181 | Y-Bn   | 20 | 2 |
|       | 13+50 | IMTMS182 | Bn     | 20 | 3 |
|       | 13+25 | 183      | Y-Bn   | 25 | 3 |
|       | 13+00 | 184      | Beige  | 20 | 1 |
|       | 12+75 | 185      | Beige  | 15 | 3 |
|       | 14+00 | 186      | Beige  | 20 | 3 |
|       | 14+25 | 187      | Grey   | 25 | 1 |
|       | 14+50 | 188      | Beige  | 15 | 2 |
|       | 14+75 | 189      | Beige  | 25 | 1 |
|       | 15+00 | 190      | Beige  | 15 | 2 |
| 10S   | 9+25  | N/S      |        |    |   |
|       | 9+50  | 191      | Lt. Bn | 15 | 1 |
|       | 9+75  | 192      | Beige  | 20 | 1 |
|       | 10+00 | 193      | Beige  | 10 | 1 |
|       | 10+25 | 194      | Beige  | 35 | 1 |
|       | 10+50 | 195      | Beige  | 40 | 1 |
|       | 10+75 | 196      | Beige  | 20 | 1 |
|       | 11+00 | 197      | Beige  | 30 | 1 |
|       | 11+25 |          | N/S    |    |   |
|       | 11+50 | 198      | Beige  | 40 | 1 |
|       | 11+75 | 199      | Beige  | 35 | 1 |
| Wasps | 12+00 | N/S      | Beige  | 20 | 1 |

|                     |       |      |          |        |      |
|---------------------|-------|------|----------|--------|------|
| L22toon)            | 16+25 | 954  | L16toon) | 15to0E | 1000 |
|                     | 16to0 | 962  |          | 14+75E | 1000 |
|                     | 15+75 | 961  |          | 14+50  | 1006 |
|                     | 15+50 | 967  |          | 14+25  | 1007 |
|                     | 15+25 | 974  |          | 14to0  | 1011 |
| <del>L18toon)</del> |       |      |          | 13+75  | 1014 |
|                     |       |      |          | 13+50  | 1014 |
|                     |       |      |          | 13+25  | 1020 |
|                     |       |      |          | 13to0  | 1024 |
|                     |       |      |          | 12+75  | 1030 |
|                     |       |      |          |        |      |
|                     |       |      | 12to0    |        | 1012 |
|                     |       |      | 11+75    |        | 1019 |
| L18toon)            | 15to0 | 976  | 11+50    |        | 1022 |
|                     | 14+75 | 981  | 11+25    |        | 1023 |
|                     | 14+50 | 984  | 11to0    |        | 1024 |
|                     | 14+25 | 985  |          |        |      |
|                     | 14to0 | 987  |          |        |      |
|                     | 13+75 | 989  |          |        |      |
|                     | 13+50 | 994  |          |        |      |
|                     | 13+25 | 996  |          |        |      |
|                     | 13to0 | 998  |          |        |      |
|                     | 12+75 | 1005 |          |        |      |
|                     | 12+50 | 1007 |          |        |      |
|                     | 12+25 | 1010 |          |        |      |

Tam Mapping [WR]

Sept. 6/91

950 - 400 E L 4100 N

1MWRL085 - cherty, green fine-grained  
seds. cooked-up, rusty

- epithermal breccia and drusy  
qz in places; other areas very  
fine-grained grey

- argillic alteration; up to 10% py  
along fractures

1MWRL086 - near 1MWRL085

- cherty seds; argillic altn-talc; 2° qz  
eyes ~ 1mm

- 10% py along fractures

- some drusy qz

- very rusty, fractured

|      |                                     |
|------|-------------------------------------|
| 10°E | - poor, ashy soil                   |
| 15°E | - poor, ashy, powdery soil          |
| 20°E | - extr. poor soil - rocky; gravelly |
| flat | - on o/c - cliffs - cgl to S of str |
|      | - very poor, ashy soil              |

|         |       |     |
|---------|-------|-----|
| L26+00N | 18+75 | 910 |
|         | 18+50 | 912 |
|         | 18+25 | 914 |
|         | 18+00 | 918 |
|         | 17+75 | 924 |
|         | 17+50 | 929 |
|         | 17+25 | 937 |
|         | 17+00 | 943 |
|         | 16+75 | 952 |
|         | 16+50 | 957 |
|         | 16+25 | 963 |
|         | 16+00 | 966 |
|         | 15+75 | 970 |
|         | 15+50 | 973 |
| 15+25   | 978   |     |
| L24+00N | 15+25 | 963 |
|         | 15+50 | 963 |
|         | 15+75 | 964 |
|         | 16+00 | 964 |
|         | 16+25 | 961 |

L24toon 16+50 952

16+75 945

17+00 939

17+25 934

17+50 927

17+75 923

18+00 919

18+25 916

18+50 913

18+75 911

19+00 911

19+25 911

19+50 911

19+75 916

20+00 917

20+25 915

20+50 913

20+75 907

21+00 900

L22toon 18+00 946

17+75 945

17+50 945

17+25 944

17+00 943

16+75 948

16+50 951

- 5°N - on dc, S side of road; 5m S of str
- 5°N - skid trail - possibly disturbed
- 5°N - logged area; clayey; gravel
- 10°N - ashy soil; logged area
- 15°N - logged area; gravelly
- 5°N - below rd; gravelly, wash layer
- flat - poor; ashy, powdery; clearcut
- flat - clearcut, ashy
- 5°N - clearcut; ashy
- flat - clearcut, extr. hard; gravelly, ashy  
- on o/c
- 20°S - rocky; med. soil
- 25°S - very poor; gravelly, rocky  
- gully
- 15°N - very poor, extr. rocky, ashy
- 15°SW - dry, ashy soil
- 5°S - powdery, ashy soil - poor
- flat - powdery, ashy soil
- flat - powdery, ashy, gravelly soil
- flat - break in slope → E - too rocky, cgl
- 5°E - poor soil - ashy, powdery <sup>Subcrop</sup>
- flat - abrupt break in slope → 347  
- cgl subcrop / boulder 10 m S of str.  
- soil poor - rocky, ashy, gravelly
- flat - b. of slope - poor soil

|     |       |         |       |    |   |
|-----|-------|---------|-------|----|---|
| 105 | 12+25 | MTMS200 | Beige | 20 | 1 |
|     | 12+50 | MTMS201 | Beige | 15 | 1 |
|     | 12+75 | MTMS202 | Grey  | 20 | 1 |
|     | 13+00 | MTMS203 | Grey  | 30 | 1 |

Sept. 5/91 - Altimeter Survey at Tam  
Sunny

L28+00N

15+00E 910m

15+25 910

15+50 910

15+75 907

16+00 911

16+25 908

16+50 906

16+75 905

17+00 900

L26+00N 21+00 880

20+75 884

20+50 882

20+25 884

20+00 888

19+75 890

19+50 887

19+25 891

19+00 892