R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

(c)

007446

DATE		PROJECT	SOIL	SILT	ROCK	STATION
06/10	1	PICKHANDLE				FA02004-
06/11	3	SCOTTIE	FA02007, 009,	FA02010, 012	FA 11 & 13 pancons	FA02005, 008
06/12	6	SCOTTIE		FA02015 to 021	97601	FA02014-
06/13	12	SCOTTIE	FA02022-023 FA02025-030		97602	
06/14	15	WELLESLEY		97603-605		
06/24	17	KUSAWA		97612	97609-611	FA02034-036
06/25	21	KUSAWA	97617, 97619	97620-623, 68	97613-616	FA02037-038
06/26	27	SNAFU	97627-628	97625, 629-632	97624, 626,	FA02039-040
07/03	31	KUSAWA		56574		FA02041-042
07/04	33	KUSAWA		56575-577 97634-637	97633	FA02043-044
07/05	37	KUSAWA	97641-643	97638-640 97644-645		FA02045
07/06	41	KUSAWA	97646-648	97649-650		FA02046-050
LEVEL				56551, 553, 555	56552, 554	

DATE	PAGE	PROJECT	SOIL	SILT	ROCK	STATION
07/07	47	KUSAWA	56557 56559	56555, 56558 56560	56556	FA 51-57
07/08	53	KUSAWA	56563-566, 56568	56561	56562, 56567 56569	FA 58-62
07/09	59	KUSAWA		~~56570-573~~	~~56570-573~~	
07/16	61	SNAKE	56582-588 56591	56580-581 56589-590	56578-579	FA 63
07/17	65			56592, 56594	56593	FA 64-66
07/18	67	CREST	TOUR			
07/19	69	SNAKE		56598, 56600	56595-597 56599	FA 67-70
07/20	75	SNAKE	344205	344201-203	344204	FA 71
07/21	78	SNAKE		344208-211 344214-218	344212-213	FA 72-73
07/22	83	SNAKE	344222	344223, 344225 344226-228	344219-221 344224	FA 74
07/30	87	KUSAWA	344230	344229, 344231		

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DATE	PAGE	PROJECT	SOIL	SILT	ROCK	STATION
08/02	89	KUSAWA	344236		344232-235 344237	FA75-~~77~~76
08/06	93	COAL RIVER	176352-356 176360 (dup of 356)	176357	176351	FA77~~5~~-FA82
08/07	97	COAL RIVER	176358-359 176361, 176364-366 176368-369	176362-363	176367	FA83-85
08/14	101	KUSAWA		344238-242		FA-90 (whole rock) FA-86-89
08/15	105	KUSAWA	344243-246 176254	344247-250 176251-253 (252 & 253 - dups) 176255		FA91-FA93
08/29	109	SCOTTIE		176256-257		
08/30	110	WELLESLEY	176258-280 (270 & 280 dups)			FA-94
10/15	114	Kusawa		pancons 176623 176625-626		

LEVEL

June 10/02 Pickhandle SMA (1)

FA 02-004 NAD 27

E 539708 Zone 7V.

N 6863714

- roadside exposure ~2km south Pickhandle SMA southern boundary
- o/c 200m length exposed, along highway
- white weathering, carbonate veined fine grained green to purplish black, ultramafic & mafic oceanic volcanics + minor chert
- metamorphosed to ~~schist~~ gneiss grade, felted texture to fine grain sizes

photos: JVR - 8,9,10 roll # 1

RS 3,4,5 roll # 1.

extra notes blobs / lozenges of pink (salmon pink) calcite ep along fracture surfaces & ~5 cm selvage/envelopes to opaque white calcite veinlets.

- lots of patches of calc-silicate (ep-gt-ca) 230° trending structures cut o/c but these are pre-metamorphism

Note idea changed to Nasina graphitic schists - progress to west becomes more grey/black quartzite.

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LEVEL

overcast muggy buggy 12:30pm start

June 11/02 SCOTTIE CK

FA-02-005 NAD 83 Zone 7

E 501199 N 6956873

- traversing NE into valley bottom from camp site ridge.
- come onto subcrop of dark grey wx, weakly foliated hbld-qtz diorite - metamorphosed; bi-fs-hb-qz constituents; Minor exposure 2m in size
- adjacent to mappable (1:50000) brown to grey quartzose schist/quartzite - Foliation 240/40 NW in quartzite; unit grades into quartzite eastward.

FA02-006

E 501587 N 6957226 NAD83 Zone 7

- back into scattered rock of hbl-bi grdr; come onto subcrop/outcrop to north atop spur being traversed towards valley bottom. Hand sample collected. Possibly dacite?

NB still in unit at 502000E, 6958000N.

FA02 007 E 502132 N 6957976 NAD83 Zone 7

dk olive brown, decomposed diorite in 10% dio/grdr rock chips & 10% loess/ash mix; depth of ~35cm. North facing slope but it is thawed. Frozen up the hill tho

SOIL SAMPLE

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LEVEL

FA02-008 E 502301 N 6958160 NAD83 Zone 7

- castellated d/c coarse grained hbl grdr / monzonite aggranular - same unit as noted in previous stations; prominent joint

diection 045/48 SE.

NB 502794E 6958616 - shll have scattered boulders of hbl grdr.

FA-02-009 E 503250 N 6958875 NAD83 Zone 7

- brown soil, decomposed grdr, micaceous.
- taken from a rise/knoll in valley; thick. ash layer (7cm). Botsa bear crap.

FA010/011 E 503511 N 6959065

010- silt (sand) sample 18m wide stream, very high velocity, high water level taken from an emerging ~~point~~ meander bar; moderate to high stream gradient

011- panned sample of same material sampled in FA 02-010. Less than 2 cups original material panned.

Float rock is all tan to grey quartzite & dk grey phyllitic schist. No granites.

JUNE 11/02 SCOTTIE CK.

FA02012/FA02013 E 503178 N 6959566

012 - fine sand + some overbank silt collected from sandy point bar

013 - 3 cups of sampled material panned down to a concentrate. Very minor black sand stream is 1.5m wide, fast and has a high to moderate water level. Grade is moderate

~~FA 02014~~

N.B since leaving sample site, all rock seen is granodiorite. Current position 502137E 6958180N

NB traverse back to camp (501179E 6956826N) stay on 214° to 218° bearing. All rock seen until ~250m from camp is hbl-bi granite; start getting brown quartzite float - talus or subcrop unsure;
The granite near the metasediments is strongly foliated & more mafic (higher hbl content).

picture ~~1~~ T - looking NE towards sample sites from upper camp.

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LEVEL

sunny & cloudy periods.

June 12 SCOTTIE CK SMA (6)

picture #8 - views looking NE towards targeted creek on south flank of Starvation Mtn.

FA02014 E 504273 N 6956197 NAD 83 Zone 7
- d/c located on west side of draw feeding targeted ck;
- grey, finely laminated, strongly foliated phyllite, with narrow quartz boudins; grades into pinkish grey, quartz-eye bearing laminated schist (Klondike schist).

#97601 - sample collected of Klondike schist with pervasive Fe-ox + minor hematite disseminated & patchy + veg lining within schist. Trace pyrite seen - v.f.g & silvery

Rock

FA02015 E 504524 N 6956357 NAD83 Zone 7
- gravelly stream sample collected from north draining trib on south flank of Starvation Mtn; stream is fast, with steep gradient; 1.0m wide & 5cm deep; material is dk grey, crenulated schist & brown/grey qtz-eye schist; sample taken where stream grade flattens and an island is exposed.

JUNE 12 SCOTTIE CK

FA00016 E 505213 N 6956405 NAD83 Zone 7
- sandy stream sample collected from main creek ~~between~~ fast, moderate - high stream gradient; collected from upper end of a meander bend composed of cobbles of grey schist > brown schist > yellow stained quartz pebbles & cobbles;

FA02017 E 505432 N 6956163 NAD83 Zone 7
- moss mat sample collected from centre of stream; north draining trib to main creek.
- stream is < 1 m width, incised ~ 0.5m into the ground. Fast & moderate grade; No rocks seen.

FA02018 E 505596 N 6956071 NAD83 Zone 7
- gravelly stream sample collected from both sides of a meander caused by rock/log jam; Fast, steep graded stream, < 1 m width incised 0.5m or less into moss; Rocks are grey & tan banded gneiss - some pieces look like qtz-eye schist but the quartz eyes are muscovite.

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LEVEL

JUN 12/02

8

FA02019 E 505724 N6956130 NAD83 Zone7

- overbank sample of sandy material from main creek; creek is 1-2m wide, moderate to fast flowing, moderate to low grade; stream is over 0.5m depth; overbank deposits exist to 1m above current level; sample taken from bank material ~15cm above current level.
No rocks visible - Sand is micaceous.

FA02020 E 506884 N 6957286 NAD83 Zone7

- muddy stream sample collected from two channels on a SE draining fork into the main creek. Sample taken <100m up from confluence of left & right forks; sampled left fork;
- sand, mud & silt from low volume, mod. velocity, moderate grade stream. Some ice still present. Downstream still have sections completely glaciated (below fork confluence).

June 12/02 Scottie Crk (9)

FA02021 E 506845 N 6957273
organic to sandy stream sample from right fork of se draining stream into the Main creek; Creek is still glaciated so caught the edge of the main channel Moderate grade, low velocity, low water level. No rocks seen. Chips in stream are tan quartzite > grey phyllite > yellow stained quartz chips

NB traverse back to point 5042006, 6956975N still in metasediments but appear to be getting more felsic than intermediate.

Picture 12 looking NW from Starvation Mtn towards camp hill.

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LEVEL

cool & overcast threats of rain

10

JUNE 13 SCOTTIE CK

soil traverses along spurs radiating from camp

FA02022 E 501045 N 6956625 NAD 83 Zone 7
dull greyish brown soil? with 5-10% phyllite/schist fragments; sample feels like loess but have lots of schist colluvium overlying material. Taken at 30cm depth. Fair sample

NB locating shallow soil pits Unless material has filled in, samples were not collected below the loess horizon.

FA02023 (soil) E 500979 NAD83
FA02024 (rock) N 6956454 Zone 7
photo 13 - rock collected 7m north of soil;
of rock. - very little soil around area, had to
(97602 collect material overtop of colluvium;
Rock) 10cm depth, light brown, loamy to silty, mix of loess & residuum
located in clearing with exposed greyish green to white quartz/feldspar metasediment; rounded quartz grains

visible. May be Klondike schist; Meta-arkose/arenite.
Sampled Felsenmeer patch taken from greyish green, fine grained metased with a 2cm white quartz vein and cm scale sheeted veins, 1 per 10cm. Sheeted veins are truncated by 2cm vein, trending at acute angles to each other. See photo hopefully.

NB find flag 50m south in ~~9~~ 97654.

FA02025 E 500867 N 6956304 NAD83 zone 7
- poor sample of damp loess intermingled with some residuum, Mostly moss/ash/loess then rock; Rock is white quartzose schist, surfaces stained brown from soil 20 cm depth (solid colluvium deeper than that)

FA02026 E 500768 N 6956140 NAD83 zone 7
- pale brownish grey, semi-frozen soil w minor loess & 5% schist rock chips- Fair sample, 15cm depth, overlap solid colluvium.

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LEVEL

JUNE 13

(12)

FA02027 E 500657 N 6955970 NAD83 Zone 7
orange brown to greyish brown
soil; good material @ 20cm depth;
Rock chips of quartz-eye schist.

FA02028 E 500550 N 6955773 NAD83 Zone 7
- pale brown, semi-frozen residuum ~~to~~ to loess;
metamorphosed → - 15cm depth, rock chips are tan siltstone/
argillite & greyish green phyllite.
good sample.

FA02029 E 500392 N 6955677 NAD83 Zone 7.
- Moist brown soil + loess, 20cm depth;
phyllite & schist colluvium, fair sample.

NB Come onto ~~steel~~ clear red galvanized rod embedded
in quartzose schist; survey marker is
dismembered from rod; survey marker 5m south.
Says
Witness Post
Please do not disturb nearby
Survey Marker;
for info write to Ottawa or Washington.

June 13 Scottie Ck. (13)

FA 02030 E 500331 N 6955492

- poor sample, minor soil, mostly loess; thick organic development on South Facing slope, no ash; taken to permafrost layer @ 35cm depth. No major rock, chips of brown quartzite.

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LEVEL

14

overcast to sunny periods. Minor sprinkles.

JUNE 14/02 WELLESLEY SMA

15

FA02031 E 564446 N 6910638 NAD 27 Zone 7
#97603 taken from swampy bog with several running channels. Sampled one channel by collecting ~~organic~~ silt laden organics at bottom of stream. Stream is 0.3m wide with low gradient & low velocity. No rocks.

FA02032 E 564426 N 6910821 NAD 27 Zone 7
#97604 taken from upstream side of log/moss jam near mouth of creek. Collected material from toe of dam - silt laden organics; Stream is 1.0m wide with moderate gradient (getting down to lake level) and moderate velocity. Very good trap site.

No rocks anywhere!! At shoreline have mixed lithologies, extremely well rounded

FA02033 E 564920 N 6911224 NAD 27 Zone 7
#97605 targeted stream but could not locate from air. Basically a 10cm cut in the moss until new mouth. Reached stream by

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LEVEL

16

walking shore of Wellesley Lake
At mouth stream is a trickle, steep gradient to get to lake level, low flow, low everything. Mixed mud clay & gravel/pebbles. Cannot even guess at quality of sample, but trap site would be good at higher water levels (meanders through a bunch of fallen logs).
Pebbles/cobbles all well rounded; Volcanics (intermediate) granites & meta sediments. Chopper here.

overcast w sunny episodes

JUNE 24 2002 KUSAWA

17

FA02-034: E 452495 N 6687968 NAD 27 Zone 8

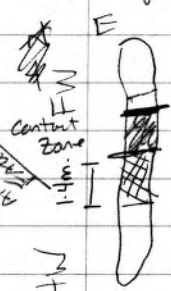
- felsenmeer patch to SW of Rose Minfile "Hi Zone" showing; mix of white/grey weathering med to coarse grained hbl granodiorite & fine grained, green colored "Skukum" volcanic ~50% each type. andesite dikes somewhere in vicinity. Hand sample collected.

Also find stubby bedding felsic tuffs;

Andesite appears epidotized.

FA02035 DEB MINFILE:

- stop at trenches of showing B; upper trench;
- geology of trench, from ~~north~~ - south. east - west



rusty stained, 97608

f.g. white intrusive in patches of py silicified & brecciated limestone + calc-silicate (diopside) in contact with intrusive 97609

galena zone - rusty; granodiorite / metased hosts ↳ 97610.

quartz replaced } 97610
metased unit }

Samples 97607 610 from upper trench;

E 450631 NAD 27
N 6684818 Zone 8

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18

97607 · rusty staining fractures, greyish white fresh, fine grained intrusive with 1% patchy to disseminated pyrite; rock sample + hand sample FA-35-01 1.0m grab

355 83 jointing

97608 dusty white weathering, silicate replaced limestone with chalcedonic rim scale also appear to have f.g. intrusive, veinlets cutting unit; unit is very altered & bedding orientations impossible. 1.2m chip · FA-35-02 hand sample. trace disseminated sphal. + minor malachite stain on some float pieces

chalcedonic replacement at contact zone

97609. black & brown mottled limestone? f.g. intrusive? replaced by galena/sphalerite blobs, patches & veinlets; one galena veinlet ~ 5mm thick follows jointing direction of hangingwall rocks. Hand sample FA-35-03

joint/vein 50 092

97610 pale greenish diopside/calcite altered metasediment with pervasive hairline calcite veinlets throughout Also have chalcedonic / cryptocrystalline quartz replacement of unit, hand sample FA-35-04

Jun 24: Kusawa

Deb - Minfile

97611 E ~~450432~~ 450551 N ~~6685712~~ ~~6684928~~

FA 36 - looking for showing 'D' on Inco map; no can find, but see lots of white qtz boulders within brokte schist/gneiss; sample one: bull white quartz, opaque throughout, non-glassy easily fracturing; irregular clots & lenses in metasediments.

Finish at Deb & fly over Primrose; no noteable signs of explo history but do see some gossan on steep north face of hill in occurrence, plus some claim posts on the less steep south face of hill in occurrence. Can also pick out limestone unit from air

Fly across Kusawa Lake is up near headwaters of Devilhide Cr. Plan to take stream sed; My draw is a raging torrent over a huge boulder field w no sediment. Only place to get sed is in valley where it empties into lake; - Traverse easterly across to get to high point or east side of Trib X over nothing but barren med grained, granodiorite (lots of qz-fpgpl. tes/veinlets) ← cm scale, joint filling.

LEVEL

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Kusowa

9767 E 431405 N 6669787 NAD27 Zone 8

- stream sample from upper headwaters of creek, only decomposed granodiorite sand, granodiorite only bedrock seen. meander bar, low grade, moderate velocity

- Get co-ords from spreadsheet. (JVR GPS)

21

snow, rain, sun
in pm
wind

KUSAWA | JUN 25

Regional recce JUR/FA

FA02037 E 456055 N 6714987. NAD 27 zone 8

start at toe of cirque - plan to hike up to red gossan on cirque wall; dominant rock is med grained white hbl-gtdr, minor fine grained intrusive (hypidiomorphic granular? ~~regu~~ irregu granular ~~pale~~ felsic groundmass with 3% brown sub angular quartz? replacement of feldspar; 3-5% coarser grained, irregular shaped beige feldspars ~~and~~ sample collected.

NB 50m of station see dark green mafic dikes - fine grained to aphanitic, massive; Mag susc reading is 92.6 SI

- check out white granodiorite (common rock). Mag susc 30-40;
- fine grained tuffaceous? qfp 8-8
- may see flow textures in one piece

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FA02458 E 456689 N 6715107
geol float piece of aphanitic Mafic dike with clots & dissem. pyrrhotite; handsample collected, large enough for assay if need be.

97613 collected ~15M south; rusty weathering
float hbld-granitic (possibly granodiorite?)
rock 1-2% f.g. po/py dissem. through groundmass & secondary cryptoxtalline mm scale qtz veinlets; localized occurrence, no nearby other specimens, Mag susc 1.35 SI.

97614 E 456736 N 6715080
& ~~97615~~ weathered, weakly foliated med-grained grdr
float with subcm ~~white to grey qz-qz~~ + fel
rock ~~veinlets~~ quartz veinlets. dark grey to black core & grey ~~shell~~ envelope.

JVR25 KLUSAUX

23

97615 E 456788 N 6715072
grab rock dark grey fresh, rusty orange brown weathering, fine grained to aphanitic groundmass, very hard. 1%-2% pyrrhotite as dissem. grains in groundmass & as mm lenses/ veinlets;
-this unit is cause of the red/orange gossan running down the cirque wall;

97616 E 456764 N 6715070
rock same material as above, taken downslope at base of talus from gossan;

97619 E 455261 N 6714108
soil crossing knoll between two major forks of targeted stream; rock type is all boring med-coarse grained granodiorite; came onto fast heaved soil pocket & grab soil sample; Orange brown, clay rich shows cryoturbation planes. Good soil

97617 456659 6715026 N
97618 455655 E 6714707 N
- taken by JVR. note in JVR book?

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97620 E 454975 N 6713374
Silt no sediment in creek at all, resort to sandy overbank material plus some moss to try & get enough fine material, Creek is wide (3m), has a steep to moderate gradient and moderate to fast flow Rock type is dominantly coarse grained grdr but do see some dark green, pseudo banded unit as in ~~creek~~ the north fork, & very minor feldspar porphyry in the dark grey aplitic groundmass. No mafic dikes or fine grained intrusive seen

97621 E 454796 N 6713409
Silt North draining tributary to creek sampled as 97620, fine sand to gravel sized material, mostly c-g. grdr but also some grey fel-porphyry in epidote phenos, unit definitely shows flow textures. Steep grade, moderate quality trap site from stacked boulders; fast water flow

JN 25 | Kusawa

25

97602 E 453509 N 6713294
<silt emerging stream, northeast draining trib to main creek; stagnant, stinky puddle; sample is organic mat + silt & decomposed gdr

97603 E 453097 N 6713254
silt from main creek; no real silt but decomposed gdr (coarse); rock types include white granodiorite, feldspar porphyry dacite/dk grey aphanitic groundmass; fine-grained granodiorite; moderate to low grade, fast flow, 4m width; poor sample.

- creek bed/talus along traverse composed of gdr >> porphyry > mafic dike
- no mineralization.

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windy, sunny periods

27

June 24/02 SNAP

NAD 27 Zone 8

97624 E N

rock 25m down gulley from RH02038

GPS point used RH02038

hematite stained limestone bed plus surface stain along joint surfaces;

97625 E 569168 N 6689286

silt plunge pool on spill at ~~base~~ M.D. level of gorge; flat pad @ sample site, steep overall; moderate to fast south flow

Rock type 3 mostly grey lst & occasional rnd rounded cobbles of diorite

97626 E 566035 N 6688065

336 / 88 / 280 / 26

beige/pale tan ash tuff outcropping in gully; rock sample collected, orange/yellow oxide stain along fracture planes.

conjugate joint set

small occurrence, exposed over a 25m x 2.5m stretch of gully.

- notice some more o/c ~ 30m down the gulley; cannot see contacts or any contact features such as hornfelsing, silicification etc.

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LEVEL

NAD 27 Zone 8

28

97627 E 566101 N 6680480

soil Taken from gully, minor soil + other fluffy stuff atop grey 1st outcrop. Poor sample, no soil or stream material in gully. Dark brown, 5cm depth

FA 02034 E 580791 N 6678801

geol. felsenmeer patch 5mx3m of ~~grey~~ ~~fossiliferous~~ weathering. ~~fine grained calc-silicate~~ or intrusive ~~Similar appearance to geology at 97626~~. NO greywacke

97628 E 580969 N 6678191

soil dry creek bed, possible source for 1460 ppb As in valley downstream. Brown, fine to medium sand. Creek is barely starting to gully the ground

97629 E 581097 N 6678109.

silt. stream finally has flow; three separate trickles merge into one. Sampled from middle branch; steep grade, lo velocity, lo water; good sample, lots of silt. Rock type is same as stn FA02034.

JUN 26 SNAFU

97630 E 581410 N 6677980 NAD 83
Silt locate flat section of creek & collect a fair silt sample. Steep grade, low flow, moderate velocity. Start seeing rounded cobbles of metasediments & granites. Till country now
- NO GPS fix; locate later - bugs crazy.

FA02040 E 581523 N 6677516
greyish/brown subcrop of fine grained calcareous green-ish grey metasediment. Looks similar to FA02039 rock but fresher. Does 039 fizz? located south slope of creek

97631 E 581634 N 6677893
Scraping moss mat from side of creek; Steep grade, high velocity, cobbles-boulders from stream bed. No silt.

97632 E 582634 N 6669564
organic silty slime from creek bottom. No rocks visible to I.d.
Low grade, low velocity;

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sunny ☺ (30)

July 3 2002 KUSAWA - TARGET Q

FA41 E 429126 N 6668505 NAD27 zone 8

geology start noting cm scale aplite / white veinlets cutting granodiorite talus. Granodiorite is grey weathering, med to coarse grained, equigranular ~~fsp~~ fel + qz + hb.

FA42 E 429071 N 6668639

geology Collect 2 types of intrusive and one specimen of quartz rich meta sediment. Intrusives are dark grey, inequigranular in sub angular phenocrysts; this is cut/intruded by the white m.g. hornblende granodiorite. Also collect a piece of grdr with aplite veining.

ET_{gN}.

Other sample is a rusty weathering, quartz rich, medium grained sediment undergone metamorphism; rust colouring of matrix from biotite;

~~[illegible]~~ E 429041 N 6668696

silt mud from mouth of east flowing trib to the main creek, Rock type is grdr & lesser latite. Good sample.

56574 Jth.

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LEVEL

Ody 3 KUSAWA - TARGET Q

Note: walk northerly past the drop-off point of June 24; Cannot relocate veining I had seen; veining seen is opaque, milky white feldspar in indistinguishable grain boundaries plus opaque grey to white sub rounded quartz.

overcast cool, windy

July 4 KUSAWA - TARGET X1

33

- camp grdr magnetic susceptibility of 0.07 SI (coarse grained version)
- camp grdr 0.14 SI from finer grained phase
- measurements vary between 0.07 to 0.14.

~~56570~~ E 420519 N 6658904 NAD 27 Zone 8
soil locate pockets of greyish brown soil so
56575 collect a sample. Frost boil is comd a
Ja. mix of 70% coarse grained white grdr & 30%
fine grained, hbl-granodiorite/granite
Good soil collected from 10cm depth

~~56571~~ E 419857 N 6658972
soil brown soil among coarse grained white
~~56576~~ grdr; good sample, 10cm depth
Ja.

FA43 E 419026 N 6659152
geol. get to base of cliff located 0.5 km
west of our camp; rock type in o/c is
coarse grained, weakly foliated, feldspar + quartz +
modal ~~accessory~~ hb & bi; white granodiorite
Two main sets of joints in apkte/

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July 4

Fr 43

034/83

pegmatite veins preferentially following the northwest striking joints; this joint direction sub-parallels the foliation

Jointing 333/34

Also mixed in with the boulder tailus we noted different intrusive phases including a hornblende megacrystic, a fine grained equigranular, a fine grained grey inequigranular (porphyritic) and a fine grained, plag rich, equigranular intrusive. The hornblende megacrystic often shows strong foliation

same as megacryst. →

~~97633~~ silt 56577

E 418818 N 6658738

trickle coming from granite face; flowing over moss and grass tussocks. Collect good sample, drains into northwest end of lake.

97633 rock grab

E 418784 N 6658686

locate many pieces of very fine grained hard, rusty weathering dike material, collect sample for analysis; NO sulfides, dominantly plagioclase?

July 4th) KUSAWA - TARGET X,

97634 E 418768 N 6658662
silt another trickle from the granite cliffs, good sample, 20m south of rock 97633 and no dike material nearby

97635 E 418694 N 6658480
silt main creek draining into ~~e~~ west end of lake, fair sample, mostly coarse material from granodiorite.

FA44 E 418779 N 6658179
geol come onto a pale green, aphanitic dike material showing flow banding @ contacts with coarse grained white granite
Note: granodiorite has very strong fabric on the south end of the lake - almost gneissic

97636 E 420288 N 6658612
silt stream draining east side of lake runs through a talus field & is dispersed into many channels over a 150m width
No material + had to take moss mat from tops of rocks, poor sample.

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LEVEL

Mg4

97637 E 420407 N 6658546

S.of further downstream, next channel over - already many have merged & now have only 2 main channels; Fair sample - tight moss like mat traps the gravelly grds material.

- return to camp; threatening to rain
- all rock seen in place was granodiorite; grey weathering precludes pulling the dikes from the base geology in the exposed outcrop,

overcast, cool

July 5th KUSAWA TARGET X

37

97638 E 422487 N 6660141
silt
taken at point where two streams have converged; collected from a mid-channel bar with moss & buckbrush that traps the silt; very good, but very wet sample; rock type is weakly foliated to non-foliated medium grained hb granodiorite;

97639 E 422858 N 6660703
silt
Collected from an incised gully coming a grdr boulder field - possibly the stream sampled by RGS.
Good sample. Rock type is grey/white med-grained non-foliated grdr; no other rock types nearby

97640 E 423308 N 6661450
silt
collected above small lake. Fine to coarse granodiorite sand from behind a large boulder. Rock type is same; good sample. Note lots of grey, finer grained, inequigranular xenoliths in boulders;

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LEVEL

July 5

97641 E 424292 N 6661661

soil frost heave among grdr boulder field.
Good soil, 5 cm depth

-noted a small gossan at the cirque wall; noted on paper topo map as 6.

July 5 — Kusawa - TARGET P — sunny periods in PM

land near center of ~~large~~ mag-low surrounded by (ringed by) highs.

~~Date~~

97642 E 421230 N 6677402

So.1 brown micaceous soil with a field of quartz porphyry - inequigranular, orange weathering, white to grey fresh, quartz subrounded, translucent; feldspar white altered, fuzzy mineral boundaries; mafic poor (<2% bi/chl after ?)

So.1 collected from frost heave.

See RH-48 for rock description

Susceptibility 1.7-2.7 SI

FA45 E 421347 N 6677500

find a fluggy subcrop dike, brown-orange weathering, medium grey fresh, aphanitic groundmass with pale white feldspar porphyry ghosts and rare subhedral black volcanic glass, intermediate volcanic - dacite? hand sample collected.

Dike approx. 7m wide & trends northerly.

Susceptibility 1.0 to 1.7 SI

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LEVEL

July 5

97643 E 421527 N 6677492
soil collected among rubble of blue grey weathering feldspar porphyry. Hand sample collected; actually decomposed rock & not soil.

97644 E 421566 N 6677408
silt; clay rich silt from upper end of creek; rock type is fine grained mafic poor granodiorite - as at RH 48.

97645 E 422424 N 6680615
silt collected from main stream; creek flows among boulder field of fine grained granodiorite. Sample composed of gold sand + moss. Fair sample.

- interesting area; possibly mag low (+ gravity low) indicates (plus topography) a possible solidified magma chamber (?) & the encircling high is the intermediate to mafic volcanics of a caldera complex.

blue sky & sun since 10AM

July 6 KUSAWA - TARGET P3

41

FA46 E 417258 N 6675498

geol. among boulder field below gossanous cirque in anomalous RGS sample. Two solid grey coloured rock types, one with 9.2 SI other with 0.22 SI susceptibility.

9.2 SI is a very fine grained plag + biotite - latite? Blocky breaking. No bearing

0.22 SI is a felted mat of feldspar + minor quartz + accessory mafic - bi? Call it a dacite: trace ~~Py~~ ~~Hbls~~ Py in unit - ~~replacing~~ bi Subconchoidal breaking Hand samples collected.

FA47 E 4116280 N 6674620

geol. gossanous cirque, dominant lith is a salt & pepper granodiorite, medium grained, quartz rich, 10% hornblende ± biotite; albite or orthoclase feldspar dominant - no plag twinning or albite twinning seen. Magnetic susceptibility of 0.09 to 0.56 SI. Grdr around camp is 1.7-2.7 SI.

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July 6

FA 47 cont'd. tour cirque head - from north wall around to south wall collecting rock types. As mentioned, gdr most common but start getting lots of intermediate fine grained & feldspar porphyry intermed. rock types at ~~east~~ west side; fossans located on southwest / south wall & appear to be finer grained intrusive with leaching of mafics causing brown/red staining of surfaces & orange/brown staining of groundmass.

Other types:

(a) fine grained, black coloured plag + bi + pyroxene? ~~gte~~ (~~granite~~) weak lineation of feldspar laths;

(b) feldspar-hornblende porphyritic intrusive; groundmass is pale grey, fine grained felds + quartz + biotite.

(c) rarely seen aphanitic, black basaltic dike - these infill separated joints in the c.g. granodiorite.

(d) saccrosic textured felds + qtz aplite.

July 16

TARGET P3

@ Very fine grained, equigranular intermediate rocks as noted at station FA 46, both blocky & sub-conchoidal breaking. Trace py appears to be replacing bio.

97646 E 416128 N 6674425
soil soil from gossanous / Fe-stained granite, good sample, talus slope.

97647 E 416127 N 6674428
soil grey soil from decomposed intermediate fine grained intrusive w trace pyrrhotite ~~pyrite~~. Good sample.

97648 E 416215 N 6674404
soil brown soil from scree slope to east of gossanous material. Assuming most is c.g. granodiorite but porphyry also common component. Very coarse material, fair sample.

97649 E 416441 N 6674552.
silt Collected from base of cirque, good sandy material - not much silt, c.g. gdr talus field; at toe of mini glacier.

LEVEL

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July 6

-leave mornings samples at.

E 418365 NAD27
N 6674637 Zone 8.

97650 E 419515 N 6673668.
silt collected from mid-channel behind large boulders after plunge pool in main stream. Coarse ~~to~~ sand of decomposed granodiorite, e.g. gds comprises float. Occasional small mafic cobbles/large pebbles; andesite/diorite dike material.

30551 E 420045 N 6673768
silt collected from northwest draining stream,
FA-48 side of channel behind boulder; coarse to
geol fine sandy material; moderate flow, steep
grade; rock type is ~~dominantly~~ intermediate
volcanic/fine grained intrusive; also
have gneissic textured granites;
hard samples collected.
Susceptibility >4 on intermediate
2.5 on gneiss.
Pyrrhotite in intermediate unit. Sulf

July 6:

TARGET P3

material as found in Gossaeus cirque with varying susceptibilities, (stn. FA-46).

Gneiss is low grade and just starting to segregate felsic & mafic (biotite) minerals.

86552 rock float FA48 Cont'd.	Collected rock of intermediate po bearing unit. Same location as 86551. Extremely hard rock, (H=6) - many different granite types present in stream
86553 silt	E 419998 N 6674187 muddy silt, decomposed grdr + loess(?) steep grade, huge boulder bed, low water flow, rock is all coarse-medium grained grdr, magnetic susceptibility of 1.2 to 2.5 SI.
FA-49 geol.	E 419895 N 6674428 rock type capping peaks on southeast side of valley are a fine grained, black coloured, non magnetic interlocked groundmass

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July 6

of feldspar + ~~pyroxene~~ quartz (?). Inequigranular, sub-porphyritic; Hardness 6.5.

Note: after crossing capped peaks & looking @ geology, I believe these are the source rock for the intermediate dikes

Note: contouring/sidehilling back to camp along SE slope, crossing 4 gullies to get to a fan stretch to sample;

Gully 1 - c.g. granite + intermediate dike + feldspar rock

Gully 2 - pinkish fine grained intrusive as at ridge gossan (FA 47)

Gully 3 - white, fine grained to med grained hb granodiorite + dark grey porphyry (feldspar).

lots of miarolitic cavities

~~Gully 4~~ -

FA-50 E 419144 N 6675692.

geol. gully #3; headsample collected - med grained, pink/orange weathering felsic granite, miarolitic cavities feldspars altering, <2% hbl.

July 6. KWESAS | TARGET P3

56554 E 419058 N 6675787
rock talus collection of tan weathering microlite, f.g. intrusive + minor sucrosic textured, white intrusive, dark grey feldspar porphyry, and intermediate dike + large boulders of med. grained hb granodiorite;

JULY 7

56555 E 416334 N 6677762.
silt; RGS gully; good sample of in-situ material + till; steep grade, low flow over 4 channels. Collected from each channel;
Dark grey coloured feldspar porphyry, coarse grained biotite granodiorite hornblende, feldspar porphyry (dark grey) tan-orange weathering, med-fine grained granodiorite, coarse grained ~~white~~ hornblende granodiorite.
No intermediate dike rock or parent seen, tan scar is till exposed on hillside & orange colouring is the gran.

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sunny, no clouds

July 7 KUSAWA - TARGET P1

56556 E 423764 N 6672778
rock grab hem/lim stained f-g felsic
56557 intrusive; argillic altered - feldspar
soil <2% disiem py strongly oxidized;
<2% hornblende, altering to chlorite.
soil from same material;

56558 E 417347 N 6686680
soil P1 target, Kusawa. Mix of coarse sand (grdr) & clayey loess. More clay than sand. Fair sample low grade, moderate flw. Rock type is May susc 3.6-4.5 SI

P2.

56559 E 414535 N 6682890
soil brown dump soil from frost heave in a NE-SW trending gully. Rock is a fine grained grey siliceous groundmass with 20% biotite & May susc of 3.3 to 4.6 SI; same rock both sides of gully; Post intrusion fault?

July 7 KUSAWA TARGET P2 (49)

FA-51 E 414563 N 6682790

geol fresh version of rock in gully; SI 7.6-8.2 pale grey coloured, inequigranular granodiorite/quartz monzonite with 10% biotite; Biotite QM.

248/88 Jointing 102/76

*Gully rock labelled FA-51b Hand sample collected. Prominent jointing is 248/88 S, parallel to the gully. Secondary jointing 102/76 S

FA-52 E 414602 N 6682941

geol lost hand spec for FA-51; find a similar, the finer grained version This has an SI of 21.9.

FA-53 E 414454 N 6683121

geol -not convinced north side of gully is same rock type. North side rock is more recessive. Also appears to have more quartz and less biotite; also collected black aphanitic dike material (lots scattered about) & one piece of grey coloured feldspar porphyry (glacial origin?). 4.5 SI for granite, 6.4 for dike. None taken for porphyry

→ Freshest version of gray was 6.5 SI susceptib. 2.0

- intermediate dikes of P3 target.

LEVEL

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July 7 KUSAWA TARGET O

AWA MINFILE

Fp 51 E 418987 N 6698994

geol. climb up to o/c of folded white, non-calcareous metasediments - thin to medium bedded interbedded biotite gneiss ~~schist~~ (black fresh - weathered / oxidized / altered rusty brown) and a white quartz-feldspar schist ~ <2% biotite specks; Above base of o/c are orange brown patches which may be skarn horizons

bedding 314/21 42/164

also noted pegmatite intrusive: qz-fel-biotite

Noted in talus/scree from o/c are blocks of interlayered (thin bedded quartz & limy weathered out beds; also noted abundant quartz veining exhibiting open-space filling.

N-3 within o/c accessible, very tiny rusty patches are bi rich horizons in white quartz-fel schist unit.

N-3 climbed ~100' vertically above station to check out large orange patch not parallel bedding - alas just bi-schist & probably bleeding of stain causing irregular shape of oxidation. Suggest prospecting talus rather than climbing cliffs.

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LEVEL

July 7

FA55 posts. E 419029 N 6699098
old 4x4 posts, 4 of them No tags
no writing

SB60 silt E 419349 N 6699185
fair sample collected from a wide trickle draining contact of metareds & intrusives
Rock types are biotite/feldspar sch.st, qtz-fel-bi schist & coarse grained qtz rich granodiorite;

FA56 posts E 419331 N 6699454
More claim posts. No Markings

FA-57 geol. E 419395 N 6699963
notice basalt in 3 different locations.
Possibly not glacial in origin?

July 8 KUSAWA TARGET O sunny & clouds.

FA 58 Campsite E 419036 N 6699760
Old Phelps Dodge campsite, poles for Squaw-pole tents, old stove pipe. Take a good look around but can't find any remnant sample bits / rock chips;

56561 silt. E 418738 N 6699376
good sample, good trap site; coarse to fine sand of a granodiorite appearance, little trickle draining walls at south of hourglass lake; All rock seen in felsenmeer / heave patches since camp has been intrusive.

56562 talus grab E 418842 N 6699165
finally locate some mineralization; Dissem blebby to speck sized po within rusty weathered biotite gneiss. Po occurs in a quartz / feldspar rich band within gneiss. Hand sample collected.

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LEVEL

July 8

56563 E 418785 N 6699137
soil collected from 3 spots over 5m length, located from small talus pile southwest of origin for rock sample. Talus material, it is brown soil w 10% rock chips; Rock is rusty biotite gneiss and fresher biotite gneiss to schist;
N.B more float in po above soil site.

56564 E 418850 N 6699091
soil spot soil, brown soil + fine talus collected above site of rock 56562. from rusty patch of bio-gneiss
N.B

N.B halfway between samples 564 & 565 have a series of very shallow pits aligned North-south and about 3m apart.

56565 E 418877 N 6699027
soil collected over 2m width across a gully draining the AWA showing. Brown soil, mixed lithologies of metasediments. This gully is source for @/metrics!

July 8 | KUSAWA - TARGET ◎

N.B have discontinuous dikes of grey med. grained felsic intrusive and white med. grained bio/to felsic intrusive within metaseds. Non-mineralized.

56566 soil — E 4189931 N 6699023
Lt. brown soil collected from side of run-off ~~gully~~ chute east of 565 gully. Likely AWA showing here or at 565 chute

56567 talus rock — E 4189931 N 6699023
same location as soil; Grey coloured feldspar porphyry ~ py+cp along fracture surfaces; Also ~2% py patches & blebs in groundmass

FA 59 posts — E 4188485 N 6699524
weathered, unmarked 4x4 claim posts, wired together (4 total)

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July 8

FA 60 E 418399 N 6699699
geol. yellow-brown weathering, beige fresh, aphanitic felsic dike float ~ 2% rounded, clear qtz eyes; Dominant rock type is monzo-diorite (qtz poor) Also have rusty brown biotite gneiss

FA-61 E 418321 N 6699921
geol. rusty path among diorite; O/C is blocky breaking, thin to medium bedded quartzite.

278 68 bed
046 52 cleavage
18 040 elvg/bed lineation

56568 E 417945 N 6700206
soil tan-brown soil - talus fines collected from debris trail of rusty brown gossan west of camp. Good soil.

July 8 | KUSAWA - TARGET | 57

5686 rock | E 417931 N 6700180.
orange-brown weathering, purplish grey fresh, hornfelsed grey colored
FA-62 geol. | feldspar porphyry ~ 2% po blebs & trace dissem. pyrite; silica replacement obliterates relict texture in some pieces; texture remnant in others;

FA-62 | red-brown gossans west of camp on hillside are hornfelsed feldspar porphyry sandwiched by volcanic breccia; Breccia is feldspar lapilli in a dark grey-black groundmass with 10% clasts of mixed lithologies to 5cm size; hand sample collected.

6m wide zone of hornfels

- Also found around area is a lineated gabbro with actinolite lenses and a quartz-feldspar pegmatitic vein material with 3mm pink garnets;

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July 9 | KUSAWA - L II

56570 silt | E 423770 N 6706296
1m wide, 15cm deep, moderate grade, moderate flow, ~~head of~~ u/s side of inside of meander; mostly felsic granite pebbles & gravel + minor green. aphanitic dike pebbles; good sample.
Rock is beige colored, very coarse grained leucocratic granodiorite, <2% biotite;

56571 silt | E 434338 N 6709250
stream flowing through a swamp meadow. Find main flow & sample coarse granitic gravel & organic slime & roots & mud. Poor sample.

56572 silt | E 434279 N 6709039
come onto another stream - good flow good sample from inside of meanders. Fine granite sand; 0.5m wide, low grade, moderate flow.

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LEVEL

(60)

SB573 E 434040 N 6708129
silt fine to coarse granitic gravel. Good sample. low grade, low flow;

drizzle

61

July 18 SNAKE RIVER SM.
'TARGET D'

~~EA 03~~ E 594882 N 7208485

36578 dropped off above R65 sample site # 1359
Rock. Rock type is a green siltstone matrix
+trace supported conglomerate; trace cp within
PY matrix; hand sample & rock collected. From
outcrop. Clast granule to pebble sized;

36579 ~ 15M west of 578; quartz + white
dolomite ~~feldspar~~ vein at least 10cm thick, exposed
on hillside within same unit as above.

Note: pebbles composed of brown/red sandstone &
diorite → black, very fine grained volcanic? and grey &
white chert; occasional hairline sparry calcite
veinlets.

36580 E 595090 N 7208127
silt collected from steep draw near headwaters
draining into R65 # 1359. Same rock unit
w larger pebbles → cobbles + yellow brown
weathered silty matrix-supp. cglm.
Good sample.

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56581 E 595124 N 7208067
Silt talus material collected from main stream, upstream of RGS #1359. Some rock unit. Located above confluence of stream sampled as 580

56582 E 595424 N 7208693
Soil start contouring hillslope to the east; collect soil from beside a runoff gully. Some rock type; grey soil; poorly developed overtop talus; mixed in organics (moss) Fair sample.

56583 E 595603 N 7208802
Soil Poorly developed soil; A mixed with B+ rock chips. Dark greyish brn, 20cm depth Fair soil. Some cglm rock;

FA63 E 595661 N 7208902
geol. not too sure about cp in 56578; check it this evening;
Sampled a cglm (green) with a quartzose clast bearing pyrite + other sulfides; source for anomalies

Mylite	TARGET D.
	possibly conglomerate clasts? Collected at base of outcrop.
56584	E 595728 N 7208970.
soil	same as 583; minor dark brown-black organics, less rock;
56585	E 595915 N 7209071
soil	same rock type; grey soil, 10cm depth; organic layer below; from intermittent stream gully.
56586	E 596147 N 7209170.
soil	locale ~~brownish~~ grey soil pocket; same rock type but seems more fissile/slaty; good sample. 20cm depth. Matrix is also more calcareous.
56587	E 596352 N 7209154
Soil	Find pocket of dark brownish grey looking soil. Unsure if real soil or loess + other material. Poor sample, 15cm depth. Fair

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LEVEL

56588 E 596590 N 7209094
so.1 Good soil, 10cm depth from gopher hole Brownish grey. Green muddy cglm still main rock, not as slaty for the past two stations, calcareous tho.

56589 E 596686 N 7209067
silt stream not sampled by RGS; steep grade, fast flow but lower water level has left a gravel bar exposed. Good sample, Same rock type- cglm.

56590 E 596698 N 7206061
silt second channel to one just sampled (589). This channel has steep grade & fast flow, appears to be an overflow channel for the main one (589). Good sample,

56591 E 596924 N 7209000
soil dark greyish brown loamy soil again. Appears to be good soil, 15cm depth. Upgrade soil status to fair sample.

SNAKE. sunny, no cloud in AM (65)

July 17 TARGET 'H'

FA64 E 615885 N 7169374
geol at contact between platy black shale
DME2 → (recessive) and resistant light grey
GSK4 → limestone & dark grey, fetid, foss. l. ferou, limestone;

FA65 E 616670 N 7170154
posts second set of two claim posts; these have tags; tags post #2 Y944937/Y944936

FA66 E 617003 N 7170154.
posts 2 more posts. No tags;

46542 E 617990 N 7169978.
Silt taken from moss & between rocks. Not sure of origin. Very coarse gravel; rock type is limestone, sandy silt & maroon shale/slate;
-Left GPS at lunch site?

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LEVEL

36593	E 617705	N 7169588
rock chip 20cm	grey & white quartz replaced limestone, brecciated chert interbeds - Eam Group <1% black sphalerite, fine grained - cannot determine relationship of replacement, but believe it is the remnant dasts of 1st.	
36594	E 614414	N 7168626.
silt (talus fines really)	talus fines with a watercourse, head of creek we camped on, limestone is lt grey massive, foss. lifecous, non-fetid,	

July 18 Snake SMA

TARGET A - CREST Fe Deposit

- land atop ridge overlooking minfile showing; rocks have thin bands of jasper within a silty matrix; top of Fe-formation unit?
- Fly down to river & locate old drill set-up; check out bedrock in creek. I've the iron-formation present - orange to red jasper and dull steel grey hematite;

- Move on to Camp K in p.m.

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July 19 Snake Target K. Overcast & sunny periods

36595 E 393130 N 7134784.
rock clast supported volcanic(?) breccia. Clasts of quartzite, argillite, basalt in an orange weathering dolomitic matrix; pervasive calcite high level veining exhibiting open space filling and vein breccia. Sedimentary clasts contain v.f.g pyrite. No major mineralization but collected for assay anyhow.

FA 67 E 393316 N 7134775.
X over scree contact of orange weathering & grey weathering units; grey unit is a mudstone - argillite/siltstone, orange unit is dolomitic & coarser siltstone. No delineation of contact possible. Dark grey vesicular scree also present (present throughout whole traverse from camp so far).

FA 68 E 393406 N 7134876
X over scree contact (grassy slope) on north side of creek; contact between grey & orange units.

FA-68 cont'd. grey unit is a tan weathering sandstone over here.
Note: back into chaotic breccia unit in <100m northeast, so far it is all one formation

FA-69 geol E 393547 N 7134865
dark brownish green ~~hetrol~~ heterolithic lapilli tuff/breccia exposed over 50m length (apparent) on north slope; noted because it may be some marker horizon; intercalated with pale grey to white fine siltstone; volcanic o/c is very friable (~~weathering~~) and rounded exposures ~~tombstones~~ (weathering)

56596 talus E 393696 N 7134858
very rusty stained rocks, very heavy, black aphanitic groundmass with pervasive translucent quartz flooding causing pseudo-brecciation; up to 5% brassy pyrite associated with

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pouring rain @ noon

July 19 TARGET K

qtz flooding. Also have finegrained, sub-metallic black shiny minerals possibly sphalerite? Very fetid smelling; Black smokers!!? (Huh?) Note: found sandy tuffaceous talus 10m above with 1-3cm sized rounded pyrite nodules; Note: possibly bedded barite (black coloured tho). Also have float pieces of high-level veining - calcite only.

56597 float talus — E 393859 N 7135625
locate two pieces of barite vein float within a grey shale/tuffaceous siltstone unit ~150m south of Econ showing. Cannot find more.

56598 Silt. FA 70 gal — E 393207 N 7135304
Collected from stream sampled by RGS, taken upstream of plotted site at contact between tuffaceous unit & black argillaceous conglomerate; massive pyrite lenses in talus associated with overlying tuff

TARGET K (72)

FA 70° Also have mm to cm scale ~~vein~~ vein Calcite stockwork within both units, contact appears conformable but hard to tell (cglm doesn't show good bedding)

Listwanite { Stockwork results from a 0.5m wide off white calcite vein - causes dolomitization of hanging wall & footwall. Vein trends N-S & is ~ 15m east of station (upstream).

Note: cglm bed is <5m thick

56599 rock Float E 392817 N 7134757 station RH-82; tan weathering matrix supported pyritic breccia; light to med grey groundmass. Clasts angular bleached volcanic(?) frags; some clasts replaced by pyrite, also have interstitial pyrite in groundmass as lenses, grains & blobs; Clasts look Minor chrome mica within some clasts and as weak schlieren (possibly malachite running tetrahedrite?)

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July 19 TARGET K

S6600 E 392817 N 7134756

silt. silt collected at same locality as S6598 rock; mix of coarse to fine gravel, minor silt.

July 20 TARGET K.

344201 E 392410 N 7134570

coarse sandy gravel from headwaters of stream located at K-camp; local units are orange ox dolomite & grey lumpy limestone.

July 20 Snake - TARGET N overcast & sunny periods (75)

344202 E 624720 N 7113558
silt coarse to fine sand; good sample; bedrock nearby is a dark grey calcareous sandstone; creek bed is mixed lithologies of tan weathering sandstone, Matrix supported cglm & green & maroon slates. Pyrite lenses & nodules within dk sy sandstone float; not in o/c.

344203 E 624933 N 7113527
silt dry gully, steep slope draining east side of valley; coarse sand & talus fines; rock types are blue grey calcareous sandstone (Rabbit Kettle?) with gash fillings & veinlets of calcite plus tan-orange weathering grey siltstone with calcareous lamina + dark grey, sandy Matrix supported conglomerate; no maroon shale seen.

TARGET N (76)

FA71 E 624443 N 7113127
geol. Contact between grey to beige wx
contact med grained grey xcrystalline limestone &
070/? platy to fissile, orange to tan wx
thinly laminated, thin bedded siltstone (calcareous)
Contact trends 070°.
< 50m south have a 5m wide (true)
72 120 black shale/argillite bed with sub-mm
to mm scale white to xtalline qtz
stockwork. Also have rusty red staining
of quartz xtals along fracture surfaces -
pyrite?
Note: 10M further south back into orange
wx siltstone; and back into grey limestone.

344204 E 624378 N 7113053
rock grab grab of stockworked argillaceous shale
from below outcropping rock described
above. ~10 meter error in GPS
measurement. (very high FOM)

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July 20 TARGET J (77)

344205 E 624618 N 7112478.

soil steep gully, contact between grey crystalline limestone & tan-black weathering, fissile shale;

Note: occasional fossil (ossicle) seen in limestone - replaced by calcite.

Sunny & muggy & buggy

July 21 TARGET N

FA-72 E 626282 N 7110506

o/c in gully of brown-tan wx, sg. light greenish grey fresh, finely laminated Siltstone - Steel Fm?

T 130
71 bedding

Note: two gullies north, bedding attitude is 244/36 NW

344206 E 627333 N 7110489

silt platy flisside shale fragments + fine gravel, fair sample, good trap site; o/c @ bank is platy maroon shale (Archilla)

T 106
40 bed, Archilla

Float in creek is green maroon shale, dark grey siltstone, grey micritic limestone, dark gy xtalline limestone, tan-orange wx siltstone,

344207 E 628353 N 7111447

good sample, good trap site, moderate grade, fast flow; float is dk gy xtalline lst, grey quartzite, tan weathering lt grey siltstone; light grey massive limestone; black argillaceous limestone took 1 gm from sample site; no concentrate; bits of maroon shale bits.

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sunny & cloudy periods.

July 21 TARGET N

79

344208 E 627956 N 7112473

silt; fair sample, lots of pebbles & granules, + coarse sand; 3m wide stream, steep to mod. grade, fast flow; float rock is tan siltstone, maroon shale, black xtalline lst; tan wx sandstone; beige weathering limestone; clast supported pebble cglm; Massive grey limestone)

344209 E 627429 N 7112785

silt RGS sample site. Orange flag, torn open < 2 years old; Collect coarse gravelly sample; fair to poor quality; limestone, siltstone float, all the usual stuff seen. Very wide creek (4+m) fast flow, moderate to lo grade. Try 1 full 14" pan. NO concentrate.

344210 E 627339 N 7112800

dry gully, mined d/s of RGS site; fair sample; steep grade; orange wx siltstone, beige limestone (silty) greenish-grey siltstone, maroon shale; siltstone matrix supp. cglm.

DARLINGTON (80)

344211 E 627337 N 7111740
silt from main creek, mid channel bar w/ vegetation; good sample, coarse material; every lithology noted so far is here

344212/ E 627061 N 7111345
344213 E 627068 N 7111352
rocks. 212 - black, fine grained xtheline limestone,
212 - chip 1m. with trace → 1% blebby to v.f.g.
213 - grab diss py; 10m south have black chert, strongly fractured; 5m north have brown wx quartz pebble cglm limestone;

344214 E 626870 N 7111248
silt main creek; fair sample, mostly black shale/argillite chips + minor gravel; green slate, brown fossil limestone, grey & white limestone, tan siltstone white quartzite;
one pan taken; fine white sand is only concentrate, possibly barite?

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July 21 TARGET N.

FA 73 E 626891 N 7111287
coarsely crystalline, fossils replaced by calcite, limestone; white weathering; massive to very thick bedded(?) Bedding poorly defined if present; brachiopods & crinoids.

344215 E 626189 N 7111306.
silt narrow stream, moderate grade, fast flow, good sample, silt + sand; tan siltstone, grey siltstone, black calcareous sandstone, brown, sandy fossil limestone;

344216 E 625661 N 7111101
small trib, moderate → low grade, fast flow, good sample; black shale, white quartzite (coarse grained sst) brown sandy fossil limestone; grey siltstone;

344217 E 625435 N 7110830
small trib, fast flow, steep → moderate grade. coarse gravel & black shale frags; fair sample; black shale, tan-orange siltstone, beige quartzite; ~~beige-tan~~ ↑ dominant + shale.

TARGET N

82

34428 E 625433 N 7110544

silt taken @ camp; good sample; low grade, low flow; headwaters of main ck; greenish grey & black fine sandstone/quartzite; grey & tan siltstone; no limestone seen.

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Glencoe

July 22 TARGET P- SNAKES

344219 - E 603803 N 7109670

grab looking near Highhawk Hg-vein occurrence; let off steep ridge. Maroon paper slates in white qv material eroded out; sample collected. QV exhibits open-space filling; Shales attitude is 074/38

38 cleavage/bedding

344220 E 603835 N 7109621

rock grab FA75 68 105 jointing taken off various spots of 25m x 10m exposure of Highland Gp "grit" unit - white qtz granules in a dark grey, med. grained siliceous matrix. Lots of white qv exhibiting open-space filling; sample of qv + wallrock; no sulfides seen; jointing in o/c 105/68

FA 74 E 603567 N 7110322

waste 1 hr in thick trees looking for mineral occurrence. No soil, o/c is grit or slate; pop out into open area & in region of dolomites →

TARGET P

(84)

TA74 gy wx, dk gy fresh cut by calcite stockwork.

344221 rock grab E 603567 N 7110322
grab sample of dk grey xtalline limestone/dolomite from o/c to check on background values. No soil development as slope IS 43° (steep). Note: on wx surface can see breccia texture.

344222 soil E 603451 N 7110387
greyish brown soil from gopher hole, good sample, on shoulder of hill, slope less steep; rock is a wh to calcite (mm) veined grey limestone breccia. Also seeing some qtz xtals within larger veinlets.
Note: ~ 50m lower elevation (slope) into paper shales again.

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July 22 TARGET P

344223 silt — E 602875 N 7110260
Main stream, 1.5m wide, fast flow, moderate grade, good sample collected from bar;

344224 rock — 30m exposure of white qtz stockworked & calcite veined, fine grained black limestone? Can scratch w knife but fairly hard; Note: other side of o/c facing trib sample 225 is not veined but still brecciated.

21 Y/bed 200

344225 silt — E 602858 N 7110280
collected from trib flowing into main stream; fast flow, steep grade; Fair sample, lots of maroon shale. Limestone (brecciated but not quartz veined) o/c continues from main creek;

344226 silt — E 603401 N 7110845
collected from main feeder to RGS creek; good sample from mid-channel bar; dk gray limestone predominant;

344227 E 603228 N 7111165
silt west flowing trib to main ck;
steep grade, fast flow, fair sample;
tan & grey quartzite dominant.

344228 E 603205 N 7111191
silt good sample from main stream collected
upstream of trib sampled in 227

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sunny & clouds.

July 30 KLUSAWA

344229 E 434796 N 6715404
silt steep grade, v. fast flow, wide creek draining RGS U anomalous drainage - Creek steeply incised through alluvial fan & bedrock. Rock type is a grey/brown weathering, coarse grained hornblende granite; sample composed of same material. Very coarse

344230 E 434810 N 6715835 NAD83 Zone 8
soil collected on north side of creek at base of fine-grained, felsic granite; tan/brown weathering. Light, loamy dark brown soil. Fair sample

344231 E 435621 N 6716783 NAD83
silt d/s of forks, left limit sampled by RGS. too steep to get into pale grey/tan fine to coarse sand. v. fast flow, steep grade but cascading so have short level intervals. Major rock is a white coloured, coarse to med. grained hbl grdr. Also have grey, fg. diorite and grey coloured fg ppy.

Sand Sunny (Nice ☺) 89

Aug 6 2. KUSAWA

RAM mifile. NAD83

FA75

FA75 E 459647 N 6673369

o/c of white bleached gr. intrusive with brown-grey quartz eyes to 5mm. GFP of assessment report; underlying/intruding limestone & biotite gneiss to north & geographically overlying broad alteration zone 1.

Note: block of biotite-feldspar gneiss 50m NW - o/c

FA76 E 459633 N 6673241 NAD83

o/c overlying yellow alt^n patch (east half) of zone 1; fine grained (quenched?) intrusive, grey groundmass - poss. bly diorite - grades downwards into a calc-silicate (diopside/epidote) altered intrusive; station 76 taken at intrusive contact & polished slickenside trending 312↔132°. extremely well polished & can't get a sense of movement. Surface has a 70° dip to the southwest

312°←0° fault slickenplunge

FA 76

co to. p down gully noted more slicks plunge 14°→056
Prominent pint 036°/48 SE-
-Faulting has caused brecciation of intrusive;

344282 E 459611 N 6673206
rock 3m chip across tan/yellow stained,
3m chip bleached white o/c of QFP? very
~~FA 77A~~ altered but appear to have quartz eyes;
-more slicks on east side of gully,
plunge 22°→032. Fault surface 032/72E
and it is planar; movement shows
oblique strike slip plunging 22→032°
More jointing @ 240°/80 N & 210/27 W

344233 E 459557 N 6673166
344234 6m long each, composite grabs of
6m composite orange talus/soil + chips of bleached
grabs white QFP. No mineralization seen.
Taken across western exposure of
Zone 1; Unaltered/less altered intrusive
between two gossans

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344235 E N

tubes selected pieces of brecciated, altered QFP float collected near west edge of Zone 1;

344236 E 459606 N 6673053

spot soil collected at east margin of QFP alteration; Qz-eyes noticeable & large; groundmass still bleached white; notice trace black needles & leached at surface;

RAM- Zone 1 alteration. Occurs in QFP unit; fault evidence from slickensides - two directions of faulting, drainage south of zone parallels upper fault; gully of intense alt^{n} & brecciation follows other fault (east half of zone);

344237 E

Massive actinolite & diopside ~ 20%
blobby po; lots of boulders in area,
line-up lineally, N-S trend ∴ subcrop.
At contact of 1st & biotite gneiss

PRIMROSE
MINFILE

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AUG 6 COAL RIVER SMA.

NAD 83 Zone 9

MGL PROPERTY:

~~FA-77~~ 17B51 Hike north from camp, uphill & come onto a baritic limestone (marble) bed

~~FA-77~~ rock 15m x 4m exposure of white to pale bluish white bedded barite with patchy galena & sphalerite; galena form massive pods or disseminated cubes/blebs while the red-brown sphalerite occurs as disseminated blebby patches of individual large grains;

Bedding hard to discern in barite horizon;

Continue further north & come into a small pit 7m x 15m in size;

Rock units consist of a greenish grey phyllite & grey limestone; between two units is a <3m (true width) exposure of baritic marble & limestone with 2-3% sphalerite & 1% galena; higher sulfide concentration compared to lower exposure. Sphalerite forms red brown discontinuous bands, coarse grained; galena is intrashTal/ patchy within the sphalerite;

Aug 6 (94) COAL RIVER Sunny

NAD 83 Zone 9 (unless specified)

176352 E 607938 N 6675411

So.1 nearing top of small knob, headwaters of RGS anomaly;
brown-yellow clay/loamy soil - lossst till; getting rounded pebbles of various sedimentary origin; 20cm depth; good sample if soil but have doubts - poor.

FA78 E 608154 N 6675244

geol south crest of knob; white weathering, pale grey fresh, cryptoxtaline lst; pegmatitic opaque white calcite fillings of voids; occasional manganese (coarse grained) stringers; no sulfides;

17353 E 608149 N 6675234

So.1 Minor residual orgbrn soil from lst + brown, airy loess; poor sample, 10cm depth, overlap xtaline lst o/c;

17354 E 607844 N 6674976

So.1 same as 17353.
Note rounded pebbles & cobbles during ascent.

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Sunny

AUG 6 COAL RIVER NAD 83

FA 79 E 607814 N 6674948

geol. same rock unit as at stn. FA 78, on taller knob to south; notice fossils in this section; unit seems whiter; mostly crinoids;

176355 E 607766 N 6674806

soil or-brn till/loess w clay; no soil overtop lst o/c - less fossils than stn 79. Poor sample;

176356 E 607684 N 6674551

176360 dup two samples made from one; duplicate # 176360, pale yellow brown till/loess w rounded pebbles + minor loess/till. No soil. No o/c but < 30m away have the fossiliferous lst.

FA 80 E 607683 N 6674552

pale grey limestone, non-fossilized;

FA 81 E 607774 N 6674222

dolomite o/c

dry creek; grey white cryptocrystalline lst o/c in bank; 90+% ck float is lst.; o/c is massive, no structures. ↳ lst/dol

(96)

Au66 NAD 83
17857 E 607784 N 6674218
silt from dry ck, inside of meander; coarse gravel & minor sand, 1st float, very rounded cobbles of other lithologies. less than 90m upstream of RGS sample (supposedly).
Note: <20m d/s have 100 foot tall banks of basalt.

FA82 E 608051 N 6673930
geol. o/c grey weathering, pale ~~grey~~ grey to yellow fresh, massive cryptocrystalline ~~dolostone~~ dolostone to ~~lst~~ with brecciated patches; brecciation ~~caused~~ appears to be stratabound & may be a lst cglm bed At least 4m thick;

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Aug 7

high cloud

97

LOOTZ MINFILE

FA-83 E 621127 N 6684899

geol. Lootz Minfile; o/c of aphanitic pale green groundmass with mm-cm scale grey, rounded chert/quartz pebbles

26 v/ flow bed 188 Layered o/c, flow/bedding is 188/26W

176358 E 621107 N 6684898

soil pale greyish brn-soil, 15cm depth; Fair, Float rock is a grey f.g. limestone Collected clean contact is volcanics o/c. in creek, old flagging knot nearby.

176359 E 621120 N 6685026

soil 40cm depth; good, grey soil w 1st rock frags; in flats; 40cm depth

176361 E 621130 N 6685104

soil same as 176359; on south facing gentle slope, 40cm depth

JA84 E 620978 N 6685047
yellow/brown/tan wx, buff to beige fresh, fg. limestone; forms cataracts in creek. Very thick bedded to massive; Possible bedding 186/32W.

176362 E 620987 N 6685006
silt fast flow, moderate grade, very coarse gravel; old blue flag nearby. Some volcanics in creek but lst d/c along creek. Bedding now 013/29E. Creek is a ~~synclinal~~ anticlinal axis

176363 E 621003 N 6684660
silt at mouth of creek, float is 95% limestone; collected at old SEREM camp gravelly sediment, fair sample,

176364 E 612461 N 6672836
atop ridge & planning to soil traverse to a target creek (B); d/c & float is a white, fine grained, massive lst, no soil; podzol or loess overtop ftl or bedrock; poor quality from 15cm depth.

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176364 soil is powdery & white/grey like
cont'd ash but is actually limestone scrapings
mixed in loess;

176365 E 612261 N 6672800
soil orbrn till; fair sample; 30cm depth;

176366 E 612059 N 6672842
soil lt brown loess mixed w grey limestone
material/soil; Fair sample; 10cm depth;
overtop 1st ~~outcrop~~ bedrock;

176367 E 611972 N 6672908
rock grab from o/c of dolomite breccia;
white cm scale clast supported dolomite
frags in a white, fine grained calcareous
matrix; located on west side of small
gully/linear/topo depression.

176368 E 611875 N 6672851
soil brown-~~grey~~ loess + minor 1st soil;
FA85 poor sample; 10cm depth atop dk gy
wx, grey fig xtalline limestone - different
than unit at start of traverse
weakly fetid, no sulfide.

Aug 7

100

~~1763~~

FA85 E 611876 N 6672951

geol dk grey wx, black fresh w white (calcite) speckles & hairline discontinuous veinlets. Weakly felsic, does not readily fizz with cold, dilute HCl. Handsample collected. Also have pinching/swelling calcite veinlets; Subcroppings only.

FA6369 E 611762 N 6672786

soil brown, powdery soil - loess? + soil? 15cm depth, Fair sample; grey, f-g stalline 1st host;

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Aug 14 Kusawa SMA — snow A.M. sun P.M. — 108

TARGET E-Mag High

344238 E 443678 N 6691208
silt FA86 geol. Dry stream bed draining steep NE facing slope; high grade metamorphic rocks - sedimentary parents; occasional pieces of white limestone & hornfelsed pyritized shale Rare diorite cobbles Coarse gravelly good sample.

344239 E 443728 N 6691250
silt Dry stream bed as above; drains saddle to northeast of E-Mag; less fine material, very coarse, Fair sample;

FA86 E 443778 N 6691203
geol o/c grey feldspathic gneiss, bon wx'ing. prominent cleavage / foliation 266/88N
88 266
Notice slickensided surface in creek

FA87 E 443 892E N 6691045
geol nose of ~~upright~~ to overturned
A.P. 032/45 fold, dark grey-black silt & shale
330 → 048 plunge metamorphosed to gneiss.
Photo taken.

Note: <100m up valley have limb of overturned fold 282/67°
* → * -sudden change to 060/81°S for cleavage in gneisses at 443973E 6690929N
-change to 314°/56°NE @ 444000E 6690880N

FA88 E 444171 N 6690477
geol sandy, yellow wx 9 ~~limestone~~ quartzite bed, follows cleavage, foliation, 10m ~~wide~~ thick bounded by bio-gneiss.

FA89 E 444211 N 6690344
geol Into grey wx limestone, Grey, med. grained xtalline to mrmle, no fossils visible.

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344240 E 444346 N 6689912
stream good sample, gravelly material; fast flow & mod-steep grade; Float soak of white coloured granite & dark green to black diorite/gabbro dominate creek; Lesser biotite & feldspathic gneiss

- ~~toe~~ into east facing slope overlooking Rose Lake, plan to sample two parallel streams missed by RGS for Kusawa Target E2.
Both drainages are dry & eroded to bedrock or covered by organic material. Traverse across slope & discover metasediments

344241 E 443427 N 6689127
silt Collected from same stream area as 344240 & 239, fair sample collected at end of day. Heli waiting.

104

FAGO E 447063 N 6707266 NAD 83

isol vesicular aphanitic dark grey groundmass Miles Canyon Basalt. Collected for possible whole rock.

-Whole Rock sample.

344260 E 445534 N 6696213 NAD 83

S.F. fair sample, coarse gravel, metasediments are quartz rich, very little flow occurs in this drainage.

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AU615 KUSMA sunny w cloudy periods 105

WAR Misfit vicinity;

FA-91 E 442322 N 6719556
two intrusive types; coarse grained gq-fel-hb bio granodiorite & beige to white fine grained feldspar rich rhyolite; Rhyolite occurs as dikes cutting dior grdr;

344243 E 442817 N 6719932
FA-92 soil/till sample; located in green
Soil andesite; andesite has a magnetic
Geol susc of ~25 SI; Fair sample. White rhyolite dike adjacent to sample site; approx 145° trend & ~4m thick; sub vertical dip.

344244 E 443073 N 6720226
Soil good gritty brown soil & till among white wxing granodiorite talus; 15cm depth;

344245 E 443062 N 6720503
soil gravelly brown till + soil, Fair sample
grdr boulder slope

344246 E 443113 N 6720704
soil fair soil, till + soil + loess on steep side hill
collected within red rust staining, intermediate
feldspar porphyry, red staining caused
by weathering of sulfides.

FA93 E 443127 N 6720718
geol porphyritic intermediate volcanic o/c
that has a dark brown-orange to red
weathering surface from leaching
hornblende / biotite, No sulfides seen.
Hard sample collected.

344247 E 451488 N 6717920
silt coarse granite rubble, sand & gravel.
Poor sample, Rock is c.g. granodiorite-
quartz rich.

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Aztec 15 KUSAWA (107)

344248 E 451474 N 6717887
silt finer granite gravel; fair sample; main trunk to 344247 sample feeder; white gds & dark grey fine grained mafic dike rocks.

TARGET P. 415353 6695270
344249 E ~~415353~~ N ~~6695270~~
silt poor sample; lake sediments + organics in very minor silt. Granite environment.

344250 E 417849 N 6708595
silt good sample, fine granite gravel;

~~344~~
176251 E 417761 N 6709288
silt fair sample, stream organics mixed w fine-medium granite gravel;

176252 E 415727 N 6682257
silt medium gravel of granite composition
176253 Two samples collected, one as a
duplicate duplicate; Fair samples.

A76284 E 419838 N 6683260
soil good, brown B-C mix; granite parent, hiked up draw to get silt but stream runs thru a talus field, collect soil instead
Andesite porphyries & f.g. mafic dikes
< c-g. granites,

A76285 E 420380 N 6683084
silt fair sample, granite gravel mixed in creek fines - till & loess? Granodiorite dominates stream beds; Fast flow & steep grade, I believe this comes from the draw I just hiked up & soil sampled
↳ Yes; & sample collected before confluence w main stream as this GR might show otherwise.

344237 E N
actinolite skarn in trace chalcopyrite; collected from Primrose showing, Kuskwa area - described p. 92.

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FA94 AUGUST 29 SCOTTIE

109

NAD 83 ZONE 7

176286 E 502167 N 6969020

silt organic streambed; collected moss mat with fine silt, poor sample. No rock.

176287 E 505076 N 6967837

silt organic + silty streambed, collected organic rich material - black but silty - Poor sample.

(110)

August 30 Wellesley.

NAD 27 Zone 7

176258 soil	E 554018 N 6921493 orang brown soil/clay is 10% rock chips; good; 10cm depth Rock type is tan to beige siltstone weakly metamorphosed (no mica).
176259 soil	E 553932 N 6921398 brown soil, good; 20cm depth; dark grey siltstone, wkly metamorphosed.
176260 soil	E 553839 N 6921377 dk brown soil, 25cm depth; Fair sample; tan quartzite;
176261 soil	E 553750 N 6921281 orange brown soil, more clay than #176258; brown siltstone, wkly metamorphosed, 10cm depth; good.
176262 soil	E 553679 N 6921225 orange brown soil, minor clay; good, 30cm depth; dark grey siltstone.

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AUG 30 WELLESLEY

176263 E 553570 N 6921229
soil brown soil; possible loess mixed in, no rock/colluvium, getting 5-10cm ash layer; soil is >30cm depth & quality is decreasing. Fair sample;

Note: dropped off on ridge ~2.3 km south of target; drop off location is on ridge that forms RGS anomalous drainage; start sampling westwards at 100m spacing to cover drainage, end traverse when sample depth, quality & rock content all go for a shit.

176264 E 554126 N 6921522
176270 (dup) brown clay rich soil; 15cm depth; tan to beige ~~siliceous siltstone, weakly metamorphosed~~ chert
soils Fair samples;

176265 E N
soil brown loess + soil; Fair sample; 15cm depth overtop colluvium of diorite/mafic rich intrusive; & dark grey to black feldspar rich quartzite (~~arenite~~ less arkosic)

Aug 30 WELLESLEY

176266 E 554334 N 6921596
soil brown soil, 40cm depth; good; beige chert;

176267 E 554379 N 6921792
soil clay rich, damp-wet, fair sample, 30cm depth; tan chert;

176268 E 554405 N 6921981
soil orange brown soil, 10cm depth good; brown chert;

176269 E 554522 N 6922160.
soil yellowish brown soil; 30cm depth; good; brown chert.

176271 E 554569 N 6922478
soil ~~lot~~ pale brown soil, good sample; 25cm depth; laminated brown cherty siltstone;

176272 E 554578 N 6922733
soil brown soil, good; 20cm depth;
176280 brown weathering intrusive; too
(dup) weathered to i.d.

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Aug 30 WELLESLEY

FA94 E 554576 N 6922736

geol. o/c (subcrop - shifted position so can't determine jointing + poorly exposed) near sample 176272; rock is a diorite composed of hbl-bio-fel-qtz ~30% mafic minerals; handsample collected.

176273 E 554619 N 6922982

soil brown soil; good sample; 15cm depth; no rock but composition of soil indicates intrusive source (granular & grainy)

176274 E 554688 N 6923158

soil reddish brown soil, 15cm depth, good; Rock type is black quartzite, very fine grained. Possibility of cherty argillite but don't think so. Can't scratch w knife.

176275 E 554728 N 6923370

soil damp, clay rich, yellow brown soil; 25cm depth, good sample; brown chert

Aug 30 WELLESLEY (114)

176276 E 552946 N 6923363
soil yellowish brown soil, 20cm depth, good sample, dark grey chert.

176277 E 555132 N 6923274
soil reddish brown, clay rich, fair sample, lots of rock, 15cm depth, tan chert is host rock

176278 E 555449 N 6923272
soil brown soil, good sample, 40cm depth, no rocks

176279 E N
soil greyish brown soil, 20cm depth, good sample, tan siltstone, weakly metamorphosed.

Oct. 15/02
parcans

176623 - parcan from silt sample # 576570
176625 - parcan from silt # 344229
176626 - parcan from silt # 344231

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