

019490

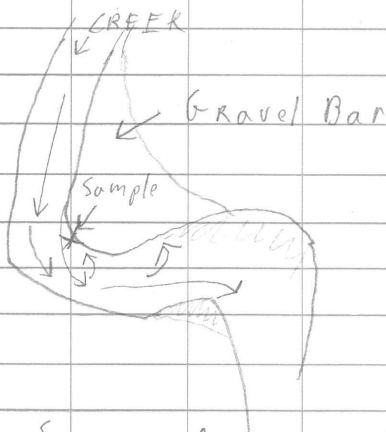
July 10<sup>th</sup> 1981

Area B - Heavy Metal  
Sampling.

Sample # B-81-001

Creek width = 15 ft

medium flow



- Surrounding terrain = high steep peaks, much visible out crop.
- Creek bottom + sand bars = Cobble size to boulder size
- Water flow at sample = narrowing of river causes increased flow then opens into back eddy.

- Surrounding forest is old Barn with thick underbrush
- Wide Valley with high surrounding peaks.

Sample #B-81-002

Same location as B-81-001 but at different location on Sand bar.

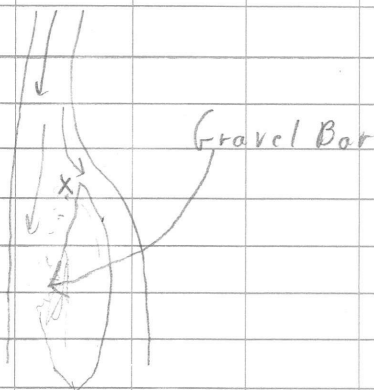


Much finer sand here - actually Sand size section of bar

Silt Sample taken at site of B-81-002.

Sample# = BS-81-002

Sample # B-81-003



Stream = 20 ft across, medium flow

Sample taken at head of island. Right branch begins to narrow and move quickly. - left side of island is shallow slow water.

Surrounding terrain = wide valley and high rocky peaks.

Vegetation = Old burn, heavy under brush

Cobble to boulder size gravel.

Silt sample # BS-81-003

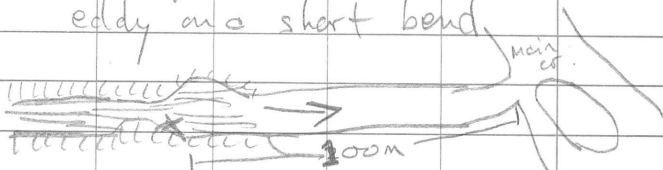
10/7/81 AREA B (Tykers river - trib of trib)

B81-004

⇒ Trib of trib of Tykers

⇒ Cr. comes out of a narrow defile  
300m distant and at point of  
sample is running straight and  
very fast.

⇒ sample taken in small back  
eddy on a short bend.



⇒ Countryside is a flat non-swampy  
plain with few trees and waist  
high brush

BS81-004

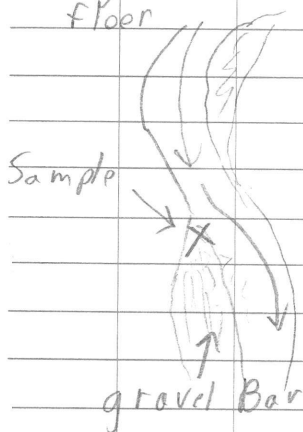
buff colored mostly sand.

Samplett B-81-005

Small Creek - 5ft wide  
medium flow, pebble +  
cobble size rocks.

Terrain = 600m wide  
valley, Steep Rocky peaks  
around. About 1km to  
valley head.

Vegetation - trees on valley  
floor



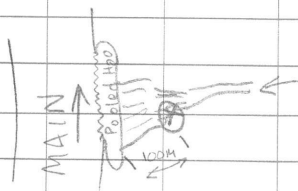
BS-81-004

10% Organic  
-light brown Silt

Area "B" trib, trib Tyler <sup>7405</sup> 11/7/81 P.K.

B81006

⇒ Area of sample is tighter brush and 10" trees. Cr. comes out of defile 500 + m upstream and by the location of sample has braided into two channels. Main branch taken. Lots of silt spread out over banks. Snow melt has swelled stream so that although it is never more than 1 m wide it is in places 1 m deep.



B581006

EXCELLENT SED.

mixture of silt, sand  
very small amount of org.  
brown.

Area B 11/7/81

P.R.

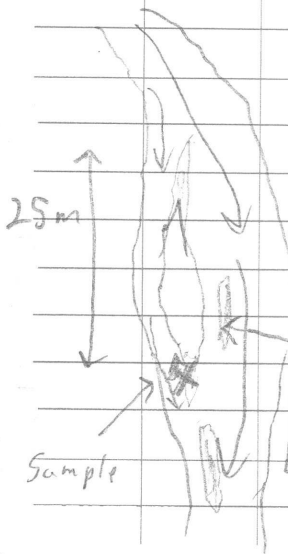
Tyers Trib:

Sample # B-81-007

Creek is 20ft+ across  
medium flow

Boulder to cobble size  
with small "Sand" bars.

Surrounding Area - Main  
Valley of Tyers River - Very  
wide: Pines + moderate under  
brush. Area is an old Bar



Creek branches 30m  
up. Sample taken  
on branch as it  
rejoins creek. Could  
not take sample at  
head of island  
because only large  
boulders were there  
Gravel bars!

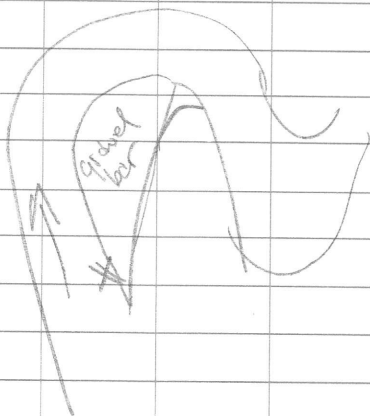
AREA "B" 11/7/81 PK

BB1-008 - Trib Tyons

⇒ Cr 30 Ft across, MED. AND MEANDERS  
large bend in river creates  
a great spot for sample and  
lunch.

Area Flat - valley bottom

SED - BS 81008 is brand Ex.



Area "B" 11/7/81 P.R.

Trib, Trib Tyons

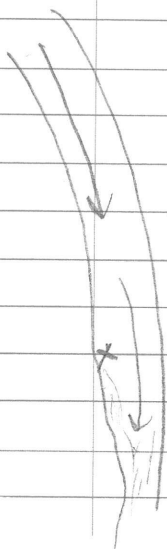
Sample # B-81-009

Creek = 10 ft + wide, 8 inches deep, Medium flow

Rock to Cobble size

Very little sand: ergo, difficult Sample.

Surrounding Area = Wide Valley, Sparse trees + underbrush.



B5-81-009

-light brown  
Silt.

15% Organic

Creek Narrows

Area B

11/7/81

PK/AR

B81010

Trib of Tyers

⇒ Main creek above junction with  
another large cr.

⇒ broad river 2 channels 20' + 10'

⇒ Sample taken from island/sandbar



⇒ valley floor - vegetation is  
primarily Jackpines

B81010 - br - mostly sand

Area "B" 11/7/81 P.R.

Sample# B-81-011

Tribal Tyers

300m up from junction  
with other creek (Previous  
Sample)

Pebble to Cobble size

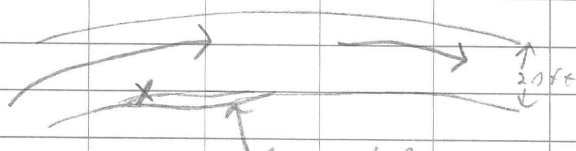
River is 20ft across

2ft. deep in center

Quick flow.

1.5km Wide Valley floor  
leading to Steep Rocky  
Peaks.

Pine and buckbrush  
surround area



Gravel Bar

BS-81-011 - Light Brown Silt  
Good Sample.

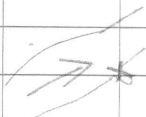
AREA B 11/7/81 PKPR

BS1012

⇒ Cr. torrential due to snow melt  
downstream 500m from outcrop  
which is stained yellow + red.

⇒ trib. Types

⇒ due to torrential condition  
was forced to sample a back  
eddy:



⇒ Cr 1.5 m. across

⇒ countryside very overgrown - older + brush

BS1012 - grey - good sediment

Area "B" 11/7/81 PR.

Trib of Tigers

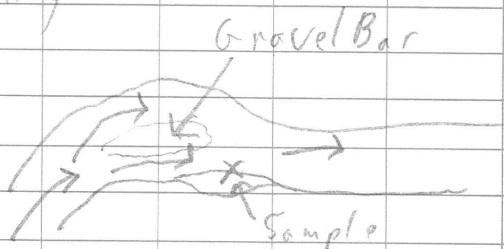
Sample # B-81-013

200 m up from junction  
with main River

Pebble to Cobble Size

River = 6 ft across, 1 ft deep  
Swift.

Surrounding Bush = Jack  
Pines + underbrush in Wide  
Valley



BS-81-013 - 25% Rock

12/7/81

AREA B

PK/PR

B81-014

⇒ TRIB TYERS

⇒ steep topography - approaching headwaters! upstream from

B81-013

⇒ 1 m wide, very fast dendritic

⇒ not much choice on sample location



B581014

not bed of dol

20% very small gravel  
80% br sediment.

Area "B"

12/7/81

PR

Tr. b of Tyers:

Sample # - B-81-015

- Creek: 4ft wide, Swift.

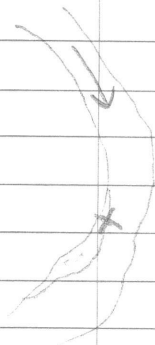
- Pebble to Cobble size

- 30m below junction  
with smaller creek.

- Narrow Valley with trees  
+ under brush

- Not much choice of Sample  
spot!

Small (Wimpy)  
Sample.



BS-81-015 - Poor Sample  
60% Rock

Area "B"

12/7/81

P.R.

Thrb of Tyers:

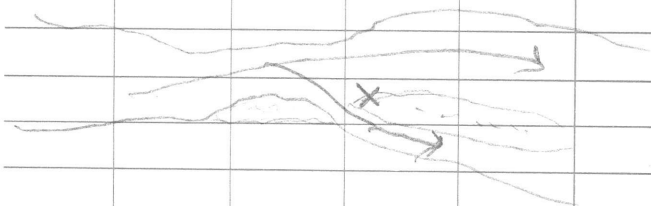
Sample # B-81-017

- 200 m up from junction  
with other Creek

- 8ft across - Swift

- Sand to Cobble Size

- wide Valley with thick  
forest!



BS-81-017 - Good sample  
20% Rock, 10% Organic  
Tan coloured silt

AREA B

12/7/81

PK/PR

B81018

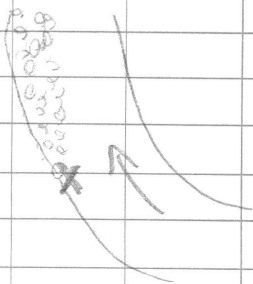
⇒ TRUB TYERS

⇒ MAJOR CREEK 5 m across .5 deep

⇒ Lots of round boulders visible  
ie: TILL

⇒ FAIRLY FLAT VALLEY floor

⇒ FAST



BS81018

- br/gr sand - 50% sand.

Area "B" 12/7/81 PR/PK

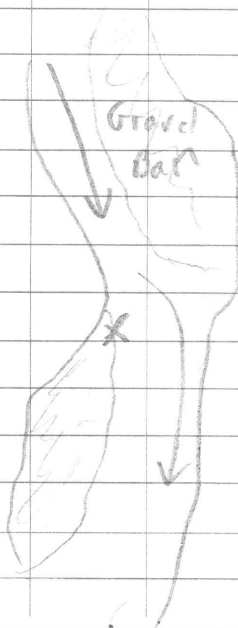
trib of Tyers:

Sample # B-81-019

Creek - 4m across, swift flow  
P. bble & bouldersize

- 1km wide valley with  
good forest growth leading  
to steep, rocky peaks.

- 40m up from junction  
with major creek



Creek Narrows  
just before  
sample site

BS-81-019

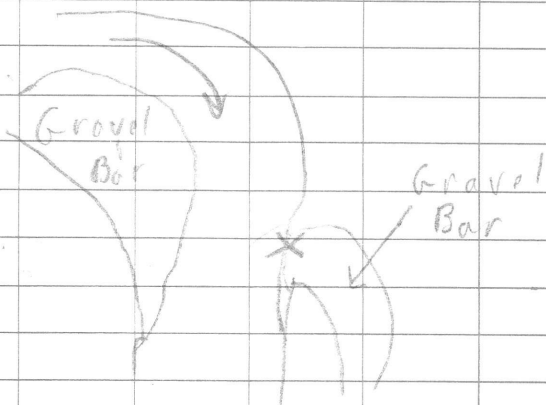
- Good sample  
20% Rock

Area "B" 12/2/81 PR/PK

Trib of Tyers

Sample # = B-81-020

- River 14m across  
Swift flow, pebble to  
Cobble size.
- 100m up from junction  
with creek
- Narrow Valley (1km) with  
good forest leading to  
Steep Rocky Pools



BS-81-020 - Good Sample  
10% Organics

Area B

12/7/81

PK/PR

B81-021

Trib of Trib of Tyers

⇒ 2 m across .3' deep

⇒ mod. fast - flat valley bottom

⇒ dendritic approx 8 km drainage



BS 81021

20% gravel

10% organics

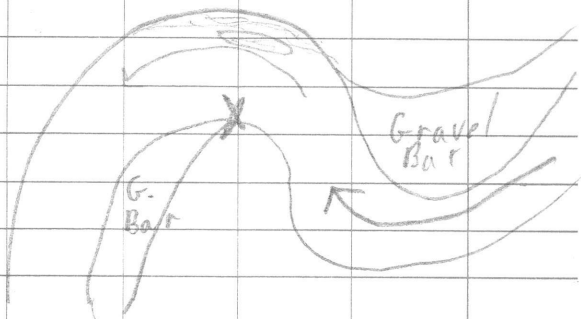
Br. SED.

Area "B" 12/7/81 PR/PR

Trib of Trib of Tyers  
Sample # B-81-022

River: 8m across, .4m deep  
Swift flow, pebble to Cobble  
size bed.

- Drainage for a Narrow Valley
- Sample taken in main  
Valley; wide + flat
- Vegetation - Sparse trees  
with much underbrush.



BS-81-022 - 10% Org  
Good Sample 10% Rock

Area B

13/7/81

PK/PR

B81023

Trib Frances l'dge

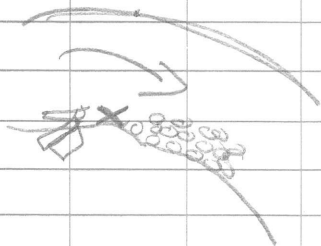
⇒ 4 m across

⇒ brown water - drains swamps

⇒ 200 m from Frances lake

low flatlands - moderate flow

⇒ bank is TILL



BS 81023

gr brown sed - excellent

Area "B"

13/7/81

PR/PK

Trib Francis Lake

Sample # B-81-024

River = 8m across, deep  
slow flow

Comes through a marsh  
but does not meander.

Silt + boulder size

- Surrounding area = flat  
land, sparse trees + marsh  
vegetation



B5-81-024-  
10% Organics  
Primo Sample

Rapids

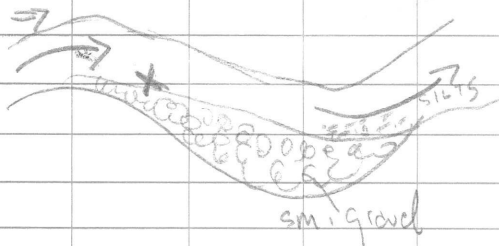
Area B

13/7/81

B81025

⇒ Trib Frances lake

⇒ colour brown ( $H_2O$ ) 2.5 m across  
moderate flow, swampy + flat  
high organic banks



B81025 - mostly gr. SAND  
≈ 70%

Area "B" 13/7/81 P.R.

Trib of Francis Lake  
Sample # B-81-026

60m up from River  
mouth

River 3ft wide, medium  
flow. Many small Gravel  
bars

Surrounding area = Flat,  
with many alder + Birch!  
Creek comes from Nipple  
Mtn.

BS-81-026 -

Gray, brown Sed.  
Ice Sample!



Sand Bar

'Area "B"

13/7/81

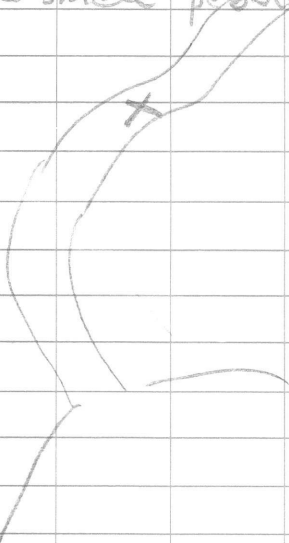
PKPR

B81027

⇒ Tib Frances LAKE

⇒ 1.5 m across, dendritic  
"Polelong Cr" clear H<sub>2</sub>O

almost rock flower bottom  
with small pebbles



B81027

SED Gray EX

Area "B" 13/7/81 PR/PK

Trib of Francis Lake.

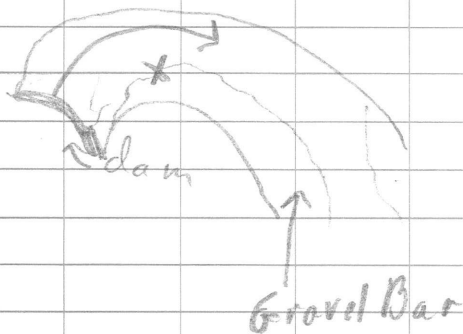
Sample #: B-81-028

- River = 5m across, medium flow.

- Sample taken approx. 5km from lake

- Sample Site = 30m below New beaver dam - Wide flat area draining from a steep narrow valley 4km away.

Vegetation: Old burn, few trees, much under brush



BS-81-028 - 20% Rock  
brown sediment.

Area B

13/7/81

PK/PR

B81029

=> Trib Frances lake - near the lake

=> major cr. 15-20 km drainage  
dendritic, banks are till

large sand cliffs upstream 2 km

same rock banks 3 km upstream

3.5-4.0 m across

clear water, moderately fast  
many boulder bars



B81029

mostly gr sand ~70%

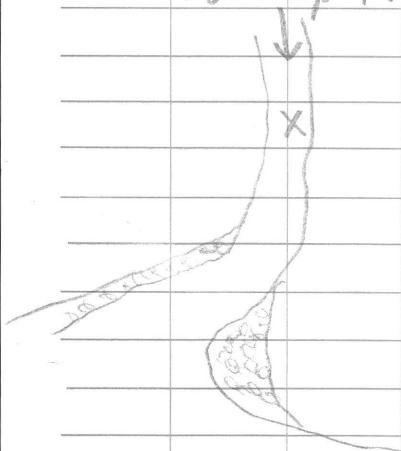
Area "B" 13/7/81 PR/PK

Trib of Francis Lake

Sample # B-81-030

Creek = 2 m across,  
Medium flow

- Flat area surrounding
- Old Barn with much underbrush
- Pebble + Cobble size
- 15m up from lake



BS-81-030 - 20% Rock

10% Organics

OK sample

13/7/81

PICPRE

AREA B

BB1031

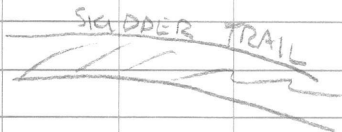
⇒ TRIB Frances Lake

⇒ Extensive bulldozing in evidence  
by report (Rogers Brook.) this area  
around cr is staked

Walked 300 m From lake and  
Saw that skidder trail continued  
so cut down to cr for sample

⇒ cr is fast and clear 4 m across  
lots of boulders in cr. and  
little sediment

⇒ cliffs of B. rock 30 m upstream



BSB1031 - poor almost all  
Small gravel

\* Contamination possible  
but no activity for 2 years

(Area "B")

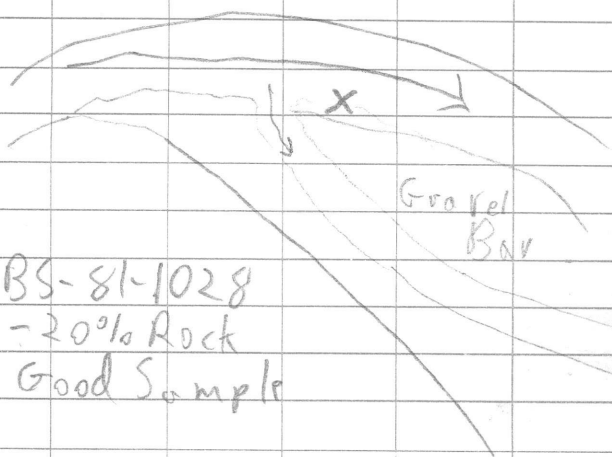
15/7/81

PR

Trib of Anderson River  
Sample # B-81-1028

- River - 8m across, Medium  
Flow, Cobble to Boulder size  
60m above junction  
with other creek.

- Surrounding Area -  
forest. 1km Wide Valley  
with steep Peaks (Rocky)



BS-81-1028

- 20% Rock

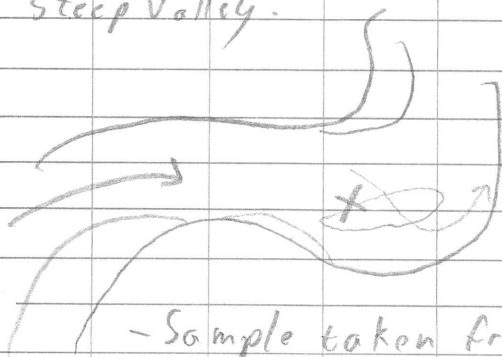
Good Sample

Area "B" 15/7/81 PR.

Trib of Anderson River  
Sample # B-81-1029

River - 3m across, medium  
flow, Sand to Cobble size  
60m above junction with  
other River

- Comes from a Narrow  
steep Valley.



- Sample taken from  
slightly submerged sand  
bar. Water washes over  
bar. Sample taken on up-  
stream side.

BS-81-1029 - 10% Rock  
Primo - Sample

Area "B" 15/7/81 RR.

Trib of Trib of Anderson  
Sample # = B-81-1030

Stream = 15cm across. Small  
flow, Shitty Sample.

- Comes from small  
drainage

- Sample taken in  
mid-stream 80m  
up from River.

+ - mostly Clay + Org

B-81-1030 - Good  
Sample 30% Org

Area "B" 15/7/81 PR.

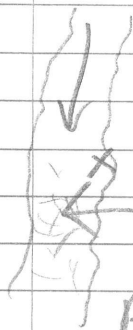
Trib of Anderson

Sample # B-81-1031

River = 10m across, Swift flow. Boulder + Cobble size - 60m up from junction with Anderson and 100m below Canyon. Canyon is steep + narrow [lot's of erosion] and about 1.5km long.

- Not much choice for sample site.

- Surrounding Area - Old Barn; hilly valley floor.



Rapids

B5-81-1031 - 40% Rock

Area "B" 15/7/81 PR

Trib of Anderson

Sample # B-81-1032

Creek = 3m across, slow flow  
60m up from junction  
with Anderson, sand to  
pebble size

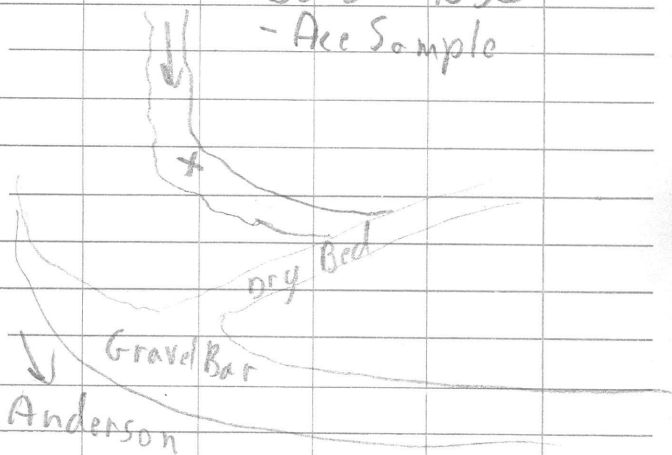
Below flat Bench; Pseudo-  
swamp!

- Surrounding Area - Old  
Barn in wide Valley.

- Drainage is small from  
high peak.

BS-81-1032 -

- Ace Sample



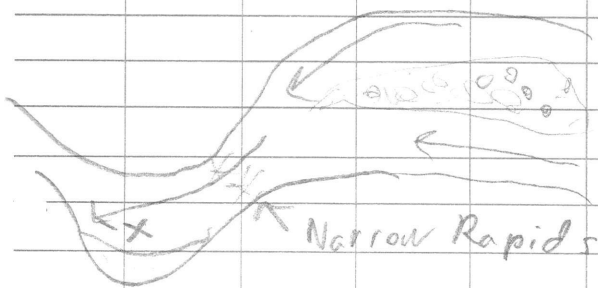
Area "B" 15/7/81 PR.

Trib of Anderson  
Sample # B-81-1033

Creek - 3m across, Swift  
flow. Cobble size.

180m up from junc.  
with Anderson.

- Surrounding Area; Flax,  
Old Barn



B5-81-1033. 20% Rock  
Good Sample

Area "B" 15/7/81 PR

Trib of Anderson

Sample # B-81-1034

River - 2.5 m across,  
medium flow, wanders.  
Sand to Cobble size.

Surrounding area - flat,  
Old Barn  
- Small drainage.



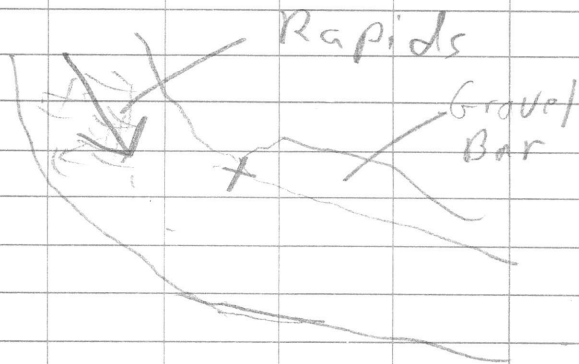
BS-81-1034 - Ace  
Sample

Area "B" 15/7/81 RR.

Trib of Francis Lake.  
Sample # B-81-1035

River = 4m across, medium  
flow. Steep Drainage.  
Pebble to Cobble Size.

Surrounding Area - Steep,  
Heavy forest.



BS-81-1035 - 20% Rock