



Prepared for:

WATERSHED ASSESSMENT: SITKUM, BOURKE, AND CLAYTON CREEKS MAP 1

CHANNEL CONDITIONS

Morphology Type; Disturbance; Stability; Sensitivity

Morphology Type:

CPc = cascade-pool with cobble bed;
CPb = cascade-pool with boulder bed;
SPc = steep-pool with cobble bed;
SPb = steep-pool with boulder bed;
SCc = steep-cascade with cobble bed;
SCb = steep-cascade with boulder bed.

Disturbance : This is an assessment of the level of anthropogenic disturbance to the stream channel. There are five classes of disturbance:

- 1 – not detectable
2 – slight
3 – moderate
4 – high
5 – extreme

Stability: This is an assessment of the channel dynamics. There are two classes of channel stability:

- 1 – stable (average channel width, depth, slope and sinuosity do not change over time);
- 2 – unstable (average channel width, depth, slope and sinuosity are changing over time).

Sensitivity: This is an assessment of the degree to which the stability of a reach is expected to change in response to future disturbance. There are five classes of Channel Sensitivity:

- Channel Sensitivity
- 1 – very low
 - 2 – low
 - 3 – medium
 - 4 – high
 - 5 – very high

SILVICULTURE SYSTEMS

Clearcut	CC	Systems with Reserves	/R
Patch Cut	PC	Irregular Shelterwood	ISW
Group Retention	GR	Group Shelterwood	GSW
Uniform Shelterwood	USW	Strip Shelterwood	SSW
Overstory Removed	OR	Group Selection	GSEL
Seed Tree	ST	Strip Selection	SSEL
Selection System	SEL	Single Tree Selection	STS

STREAM CLASSIFICATION / FISH INVENTORY

Inventoried: fish-bearing

WATERSHED CONDITION

Areas with moderate – very high surface erosion potential and high – very high sediment delivery potential (Banting Engineering Ltd., 1996)

Potentially unstable (class IV) and unstable (class V) terrain (Banting Engineering Ltd., 1996)

SEDIMENT HAZARD FROM ROADS

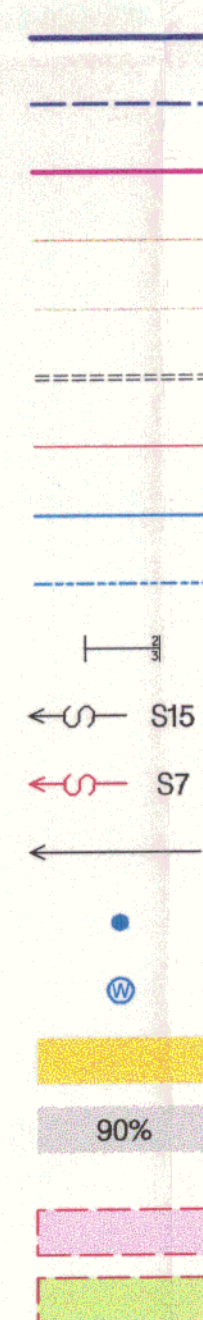
Low

Moderate

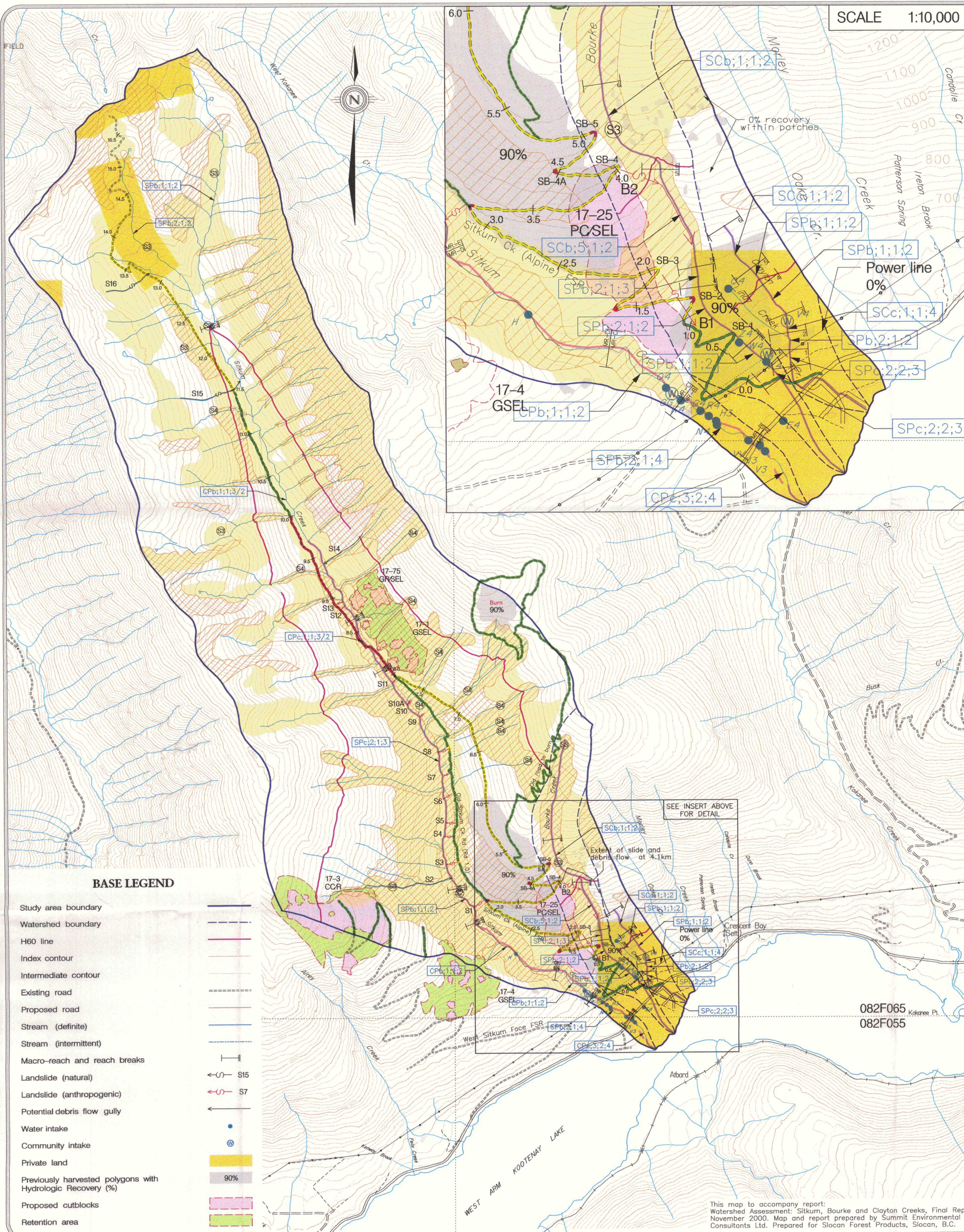
High

BASE LEGEND

- Study area boundary
- Watershed boundary
- H60 line
- Index contour
- Intermediate contour
- Existing road
- Proposed road
- Stream (definite)
- Stream (intermittent)
- Macro-reach and reach breaks
- Landslide (natural)
- Landslide (anthropogenic)
- Potential debris flow gully
- Water intake
- Community intake
- Private land
- Previously harvested polygons
- Hydrologic Recovery (%)
- Proposed cutblocks
- Retention area



SCALE 1:10,000



This map to accompany report:
Watershed Assessment: Sitkum, Bourke and Clayton Creeks, Final Report
November 2000. Map and report prepared by Summit Environmental
Consultants Ltd. Prepared for Slocan Forest Products, Slocan, B.C.



SUMMIT
Environmental Consultants Ltd.

Data source:
Slocan Forest Products Ltd. - Slocan Division

DATUM: NAD 83 UTM ZONE 11

SCALE 1:20,000
CONTOUR INTERVAL = 20 metres

Drawn by: BDJ/NS No.: 1 of 1 File: sitkum_wap.dgn