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The intent of this report is to help the District of Coldstream:



Maintain and enhance the Coldstream **visual quality** and landscape character in regard to any development in the valley with special attention to residential development.



Protect and develop **Open Space** for recreational opportunities in Coldstream.



Maintain and enhance the **natural resources** of air, water, soil, vegetation and wildlifein short environmental protection.

The objectives are explored by:

- •understanding the problems and opportunities existing in Coldstream
- suggesting priorities
- identifying "physical areas of concerndeveloping guidelines to meet the objectives

intent

This objective relates especially to those areas subject to development of a residential nature. Also important is an understanding of the landscape character and appeal of the valley.

the landscape is rural, peaceful, friendly, changing with the seasons, welcoming

the rhythm of the orchards and their changing colours are reminders of Coldstream's history and create questions of the future

wide views create an open feeling in opposition to the enclosure of the hills

silhouettes enclose and protect the valley

## visual quality

to maintain and enhance the adstream visual environment

objective a



What elements should be maintained to retain this Coldstream visual identity?



The dominant forms of hills

the strong **lines** of the ridges and hill silhouettes

The **rhythm** of the tree shapes (orchards)



landscape features: orchards, creek, lakeshore

the varied **views** 

the changing Colours and textures

the character of the community: rural open space feeling, farm buildings, fields

### elements

Different parts of the Coldstream landscape have different abilities to absorb development and therefore specific guidelines are necessary. Development can then be guided to contribute positively to the image of Coldstream.

#### visual landscape units are:

#### the valley floor

the lower slopes ( below the elevation of Buchanan Road on both sides of the valley) the upper slopes ( above the elevation of Buchanan Road on both sides of the valley) ridgelines and hill tops creek and lakeshore

\* unit locations on map are approximate.

#### visual sensitivity

each unit is:

to development of

the upper slopes ridgelines and hill tops creek and lakeshore the lower slopes the valley floor

- . high sensitivity
- . high sensitivity
- . high sensitivity
- . moderate sensitivity
- . low sensitivity



Buchanan Road

Kalamaika

## residential



The landscape development guidelines for each unit are approached from both a site planning and building form point of view. The guidelines pertain generally to residential development because following the direction of the community plan that is where development will mainly occur.

Ridges, Hilltops Creek, Lakesbore

These units are very sensitive visually and should be developed carefully, if at all, for recreational opportunities.

Upper Slopes

eg. upper Buchanan Road, upper Middleton Mountain



#### site planning

. keep built forms below the top of the slope as viewed from major vantage points

consider views from and of built forms

. retain natural features and enhance them through creative site planning

- . protect natural drainage patterns
- , roads and servicing should follow contours

. roads should be of minimum width for the least visual and grade disturbance

. make use of slope of the land and build into the land, lean into the hills

. unify a development by carrying a concept through to final details such as signage, planting schemes etc.

. retain the top 60 metres of Middleton Mountain as a recreation area and avoid housing development or road construction  $\Bbbk$ 





Middleton Mountain



#### building form

keep to low profile, horizontal development
one storey or underground/semi-underground
development is preferable

. roofs should reflect lines of the landscape. Low, flat roofs are most appropriate.

. forms and colours should blend into the background of the upper slopes

. natural materials suit the upper slopes area especially with the natural finish maintained.

#### vegetation

. plant to enhance the grassland quality, mainly ground covers and shrubs (see plant list in Appendix)

. avoid strong tall vertical elements

This unit is the transition zone between the upper slopes and the valley floor. It therefore borrows guidelines from both units depending on the location of the specific site.

#### site planning

. protect natural drainage patterns and deal with changes following sound grading techniques

. follow contours with roads and servicing and consider cluster developments which minimize both roads and servicing

. develop within the draws or low points in this unit to minimize visual impact

. extend the valley floor up the slope in valley-like forms

. road standards should be minimal to accommodate local traffic and to create the least visual and grade disturbance

Lower slopes

Kalview, residential developments just above the valley floor, lower Middleton Mountain)





### building form

. borrow from appropriate unit--the upper slopes or valley floor.

·valley vegetation extends up slope.

### vegetation

• extend valley floor vegetation up the slope to screen or to complement development

. generally avoid the use of tall, vertical elements and emphasize the native material found in this visual unit (see plant list in Appendix)



The guidelines for this unit pertain to development anywhere on the valley floor including nonagricultural lands and land within the agricultural land reserve.

#### site planning

. consider vehicular, pedestrian and recreational linkages from residential areas to schools and to community activity areas and parks.

. restrict development in areas close to the highway and rail corridors to avoid safety, noise and visual problems

. restrict development close to the creek for the purposes of environmental protection for that resource

. retain existing landscape character by retaining and adding to hedgerow planting

. restore landscape patterns ie, the orchards and hedgerows

Valley Floor

Kalvista (representing the western portion) Lavington (representing the eastern portion)







#### building form

. towards the eastern portion of this unit the historically characteristic building form is the barn, farm buildings, and ranch or farm houses. The landscape accepts them well!

. in the western portion of the unit the vegetation and established scale of development is suitable and should be respected.

. therefore new buildings in the agricultural or eastern portion tof the valley should take note to follow the scale and character of the farm buildings.



#### vegetation

. the orchards and hedgerows should remain as dominant

. site plan in **Clusters** to allow more usable and private space. Unit size and density puts a premium on outside space so care should be taken to plan accordingly.

### mobile homes

. mobile homes can appear very 'unconnected' to the ground. Set homes at depressed grades or **design** skirtings to tie the unit visually to the ground.

. site units for views and variety. Create berms or walls of planting to provide variety and privacy. In large areas look for ways of creating 'neighborhood' feelings around each group of units.

. create a **focus** for the development like a natural feature, a social or recreation centre depending on the site.

. unify development by using street **trees** planting, a signage and numbering system and colour coordination

. follow guidelines for the visual unit which the mobile home development occurs in.





#### The main reasons for open space preservation are:

open space

to protect and develop open space for recreation



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objective

. for present and future recreational use

. for preservation of existing natural and cultural features which are representative or special in the Coldstream area eg. Middleton Mountain, Coldstream Creek, the Irrigation ditches, Kalamalka Lakeshore

The objectives of an **Open Space** network or system are to:

. represent all land types

. provide a space for active (facility) uses which can be linked together and can also link residential to schools to shopping or to other recreational areas

. protect ecologically sensitive areas or unique or scarce resources

. link in a way which separates vehicular and pedestrian activity

The Coldstream community whould consider the future of its open space because an open space network depends on the demands of the people who live in Coldstream and their needs and wants. \* many of these guidelines are general and require attention to specific sites for complete site guidelines or design

Recreational aportunities

### Trails

. pedestrian, cross country skiing, cycling, equestrian

- . part of open space network/linkage system
- , multi-use and continuous
- simple signage system for trail information
- . designate historic sites/trails and provide info
- designate corridors for future recreational use

lakeshore/Beach

- retain natural character of lakeshore edge
- . site access points with regard to grade and elevation problems

. consider parking availability and pedestrian access

boat access points need detailed study \*



Creek

• system of picnic sites along creek linked by trails

. siting of areas and trails needs detailed study\*

erosion control- See environmental protection

Irrigation Canals

possibilities for trail use

. important to designate trails as open space to establish continuity







environmental protection

· to mainstain and enhance natural resources

The prime agricultural soils of the Coldstream valley are a valuable resource. Historically the combination of water and soil was the livelihood of the community and therefore necessity protected these resources. Now more external controls are needed not only to protect agricultural soils but togalso protect mountain slopes and all water resources.

Erosion Control

For protection of slopes:

. grades should be kept to less than 2:1 for planted slopes and less than 3:1 for mowed grass slopes.

• planting slopes is the most visually appealing method for erosion control. Certain plants have extensive root systems to retain the soil. See appendix.





objective

G





. structural techniques may also be used to protect soils:

1. **Fip rap**: large boulders set on slope to stabilize it- maximum slope 1:1

Etosion control

2. gabion: large rectangular wire baskets filled with rocks; may be laid on an angle/stepped back/ or set vertically

3. cribbing: system of laying timbers or precast concrete with spaces between members which are stepped back and tied into a bank for support

4. **retaining walls**: made of concrete, wood, stone or masonry

Diversion techniques also protect soil. Slope drains, swales, surface or underground pipes are all ways of carrying water to avoid disturbing soil.

Excess run off due to natural causes and mancreated environmental changes are affecting the water quality and bank stability of Coldstream Creek. It is important that a strict program be undertaken to repair damage and prevent future problems. The Ministry of the Environment has a River Protection Assistance program which could be approached.

Coldstream Creek

#### The following are general guidelines:

#### erosion control

. control traffic along banks and restrict crossings

. use vegetation stabilization where possible and structural techniques if necessary

. practice velocity reduction by installing check dams, weirs or spillways

. sediment control measures (traps or basins) should also be undertaken

. follow the recommendations of the Ministry of Environment and Agriculture regarding animal waste management



Vegetation

deciduous trees , , coniferous trees 1000 aras range of vegetation dripline new grac oldgrade

Vegetation continues to serve many purposes in the Coldstream landscape. Historically it was important for livelihood, propoerty definition, wind protection and has always contributed to the valley character and image. Now vegetation can be a solution for erosion problems and visual or noise screening. It provides wildlife habitats, can give visual definition to large areas and add life and colour to the landscape.

General guidelines for protection and use of vegetation:

. retain and add to hedgerow planting as an important landscape pattern in the valley

. never disturb the grade around a tree ie. cut or fill. Use the dripline as a guide for its "protection" zone. Employ tree wells or other methods to protect tree roots.

. add new "orchard" like trees to continue the orchard patterns

. use as much native plant material as possible to keep maintenance low and support the natural visual environment . use few types of plant material and mass the same type together in a group. This keeps the design simple, economical and effective.

. tree protection program should be undertaken involving the pruning and surgery to save older trees.

See appendix for suggested plant material list.



Vegetation

The following photos and sketches show comparisons between existing developments and suggested possibilities for improvement of those develop= ments. Also included are some general guidelines for commercial and industrial development and roadways.







# commercial









roadways









# industrial





Designation of development permit areas to have **Control** over sensitive landscape areas such as Middleton Mountain and Buchanan Road. (See official Community Plan)

Encourage the involvement of professionals with a **team** approach to development: planners, engineers, landscape architects, architects, This involvement could perhaps only occur in development projects of a significant nature although the team approach could be encouraged dat any development level.

An advisory design panel could be appointed to review preliminary applications and working drawings.

**bonding** should be required to ensure landscape designs are carried out as per approved plans.

It is important that the Coldstream District makes clear its concern over the environmental protection of its natural resources to the appropriate government agencies.



Esthetics and Visual Resource Management for <u>Highways</u>, Jones & Jones, Seattle, Washington for U.S. Dept. of Transportation, 1977.

<u>Site Planning</u>, Kevin Lynch, Cambridge, Mass. for the M.I.T. Press, 1962.

Spallumcheen: the visual environment, Bill Yeomans, B.C. Land Commission, 1977.

<u>I-70 In a Mountain Environment, Vail Pass</u> <u>Colorado</u>, Colorado Dept. of Highways, FHWA- TS- 78-208

Michigan Soil Erosion and Sedimentation Control Guidebook, Michigan Bureau of Water Management, 1975.

Local nursery catalogues

Lyons, C.P. <u>Trees, Shrubs & Flowers to know</u> <u>in B.C.</u>, J.M. Dent & Sons, Toronto, Vancouver, 1952.

Sunset Western Garden Book Land Magazine & Book Co. California, 1967.

Wyman, Donald <u>Wyman's Gardening Encyclopedia</u> Macmillan Publishing Co. Inc. New York 1971

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planning/visual analysis

#### erosion control

plant material

bibliography

### note:

Moura Quayle: Landscape Architect is now Quayle. Gauld: Earth Art Partners.

Landscape architects involved:

Moura Quayle, John Gauld, Catherine Berris

| recommended plants for o                                     | (coldstream)                                      | mmended | and the second | 2000 | A CAR |
|--|---|---------|----------------|------|-------|
| Acer sp.<br>Betula sp.<br>Grataegus sp.<br>Fraxinus sp.      | Maple<br>Birch<br>Hawtborn<br>Ash                 |         |                |      |       |
| Gleantsia sp.<br>Malus sp.<br>Platanus acerifolia            | Honey Locust<br>Crabapple<br>London Flane Tree    |         |                |      |       |
| Populus sp.<br>Arunus sp.<br>Quaraus sp.                     | toplar<br>cherry/Plum<br>oak                      |         |                |      |       |
| Robinia pseudoacacia<br>salix sp.<br>sorbus sp.<br>Tilla sp. | Black Locuist<br>Willow<br>Mountain Ash<br>Linden |         |                |      |       |
| Juniperus scopularum<br>Larix sp.                            | Rocky Mt. Juniper<br>Larch                        |         |                |      |       |
| Picea sip<br>Pinus sp.<br>Thuja occidentalis<br>Tsuga sp.    | Spruce<br>Five<br>Eastern red cedar<br>Hemlook    |         |                |      |       |
| Amelanchier sp.  | serviceberry                                      |         |                |      |       |
| Caraqana sp.<br>Corbus sp.<br>Cotoneaster sp.                | Pea Shrub<br>Daqwood<br>cotoneaster               |         |                |      |       |

and the second second

52.5

3. 1.

wirdteat Constant Con A. March here Russian olive Eleaquus SP. Burning Bush Euonymus alata Q3-63sea Buckthorn rhamnoides Hippophae Ľ. Sec. Sel Sec Honeysuckle Lonicera sp. (4.17) (4.17) 1306.94 1992 A. Philadelphus sp. Mock orange Physocarpos apulifollus Ninebark Zeres. Potentilla' sp. shrubby cinquefoil  $\Box$ cherry / Fl. Almond Phunus sp. 1 Mai 口 Rhus sp. Sumac  $\square$ Ribes sp. currant 897656 口 rose 70000 1950.00 Rosa sp. ederberry sambucus sp. 46485 spirea sp.: Symphoricarpos sp Spirea Snowberry Sec. 1 Lilac syringa sp. su - jé Viburbum 亡 90 (S) Vitourinum Sp. 日 luniperus sp. Junipers Mugo Fine Phous muqo Arbor vitae 口 Thuja sp. 1 \* marginally hardy - plant in shettered locations / hardy shains Barberis sp. Barberry 鐵續 *Coloneaster* Cotoneaster sp. cutisus/Genista Broom Cobes Ellonymus sp. EUDDYMUS -1

shrubs (britedfam) Appendix Page 2

shrubs (whitews)

