



## **STANDARDS FOR DIGITAL MAP PRODUCTION AND DATA SUBMISSION.**

The AVCF maintains its own digital filing structure and GIS database and therefore requires that GIS data and digital document file submission is consistent with the following standards.

The Contractor shall produce all **FINAL** project documents in pdf format according to the following file structure:

- Engineering (by block)
  - Recce / Engineering Report
  - Assessments
- Roads (by block / cutting permit)
  - Layout and Design
  - Reactivation plan
  - Deactivation plan
  - Bridge Designs
  - Permits (RP / RUP / MOT)
- Cutting Permit (by CP)
  - Cruise
  - Application/Appraisal
- Site Plans (by block, signed and sealed document including SP map)

Naming convention, using logical descriptive filenames should use the following general format (eg):

**SP\_Block\_xx\_yyyymmdd.pdf**  
**Cruise\_Block\_ww\_yyyymmdd.pdf**  
**CP\_023\_application\_yyyymmdd.pdf**  
**Plan\_R\_Br110\_yyyymmdd.pdf**  
**TSA\_Block\_yy\_yyyymmdd.pdf**

Supporting information (field cards, notes, calculations, spreadsheets, photos, gps data etc) does not need to be submitted and would normally be retained by the prescribing company. However a copy of this information would be accepted in CD or DVD format.

The Contractor shall produce the following maps:

- 1:5000 Site Plan map,
- 1:5000 Logging Plan map,
- 1:5000 Road Permit map,
- 1:5000 Road Construction / Reconstruction map,
- 1:5000 Cutting Permit map,
- 1:5000 Cruise map,
- 1:20,000 Location map, and
- an Overview map(scale according to project area).

All maps are to be submitted in the following formats: Arc GIS, spatial pdf, and hardcopy.

# AVCF GIS Data Standard

All GIS data used should be submitted. The file format should be ESRI standard shape file format, and be projected to BC Albers, NAD 83.

## Submission Folder Organization for GIS Data

### Date\_CP\_X1\_Company

#### GIS Data (for CP not by Block)

<b>Shape files</b>	All projected to BC Albers, NAD 83
<b>Data Base</b>	Personal or file database ArcMap 9.0-10.1 & MXDs (with relative paths)
<b>PDF Maps</b>	Georeferenced pdf maps, 11x17

### Date\_CP\_X2\_Company

The following shape files / layers (BLOCK, SU, TAUP, AREA, TRANSPORTATION, WATERCOURSE, WATERBODY, LINE, SYMBOL) should follow the structure as outlined below: (other shape files/layers are at the Contractos discretion)

BLOCK		
Attribute	Field Data Type	Field Property
Data_Type	Text	11
Block	Text	11
Unit	Text	11
Comments	Text	50

EXPLANATION:	USE:	Explanation	Example
Data_Type	<i>exist</i> <i>eng</i> <i>prop</i>		
Block			<i>Blk 12</i>
Unit	<i>Sproat</i> <i>Taylor</i>		
Comments			

<b>SU</b>			
<b>Attribute</b>	<b>Field Data Type</b>	<b>Field Property</b>	
Block	Text	11	
SU	Text	11	
STST_ID	Text	11	
ECO_SZ	Text	11	
ECO_SS	Text	11	
Surv_YYYY_MM	Text	11	
Surveyor	Text	11	
Signing	Text	50	
Company	Text	50	
Label	Text	50	
Unit	Text	11	
Comments	Text	50	

<b>EXPLANATION:</b>	<b>USE:</b>	<b>Explanation</b>	<b>Example</b>
Block			
SU	<i>1,2,3, PAS WTRA TLA NPR NPS NPW NPO</i>	standard units perm access structure wildlife tree retention area timber leave area non prod rock non prod swamp non prod water non prod other	
STST_ID		stocking standard ID	<i>10203012</i>
ECO_SZ		BCG subzone	<i>CWHxm</i>
ECO_SS		site series	<i>01</i>
Surv_YYYY_MM			<i>2011-05</i>
Surveyor	<i>TCH RFT RPF</i>	resource tech reg. prof. tech reg. prof. forester	
Signing		name of professional	
Company		name	
Label		map label	
Unit	<i>Sproat Taylor</i>		
Comments			

<b>TAUP</b>			
<b>Attribute</b>	<b>Field Data Type</b>	<b>Field Property</b>	
Data_Type	Text	11	
Block	Text	11	
Unit	Text	11	
Comments	Text	50	

<b>EXPLANATION:</b>	<b>USE:</b>	<b>Explanation</b>	<b>Example</b>
Data_Type	<i>1</i>		
Block			<i>Blk 12</i>
Unit	<i>Sproat Taylor</i>		
Comments			

AREA			
Attribute	Field Data Type	Field Property	
Data_Type	Text	11	
Block	Text	11	
Unit	Text	11	
Comments	Text	50	

EXPLANATION:	USE:	Explanation	Example
Data_Type	<i>Prune</i>	Wind Prune	
	<i>RR</i>	Root Rot Treatment	
	<i>SMZ</i>	Spec Mgmt Zone	
	<i>SS</i>	Steep Slope	
	<i>WIND</i>	Windthrow Mgmt	
Block			<i>Blk 12</i>
Unit	<i>Sproat</i>		
	<i>Taylor</i>		
Comments			

TRANSPORTATION			
Attribute	Field Data Type	Field Property	
Rd_Sect_ID	Text	20	
Type	Text	11	
Status	Text	11	
Class	Text	11	
Surv_Method	Text	11	
Company	Text	50	
Unit	Text	11	
Comments	Text	50	

EXPLANATION:	USE:	Explanation	Example
RD_SECT_ID		road name	<i>L100</i>
Type	<i>Rd</i>	road	
	<i>Tr</i>	trail	
	<i>OG</i>	old grade	
	<i>Hwy</i>	highway	
	<i>Rec</i>	hiking trail	
Status	<i>exist</i>		
	<i>eng</i>		
	<i>prop</i>		
	<i>deact</i>		
	<i>react</i>		
	<i>over</i>	overgrown	
Class	<i>perm</i>		
	<i>temp</i>		
Surv_Method	<i>GPS</i>		
	<i>lazer</i>		
	<i>tight</i>		
	<i>hip</i>		
	<i>ortho</i>		
Company		name	
Unit	<i>Sproat</i>		
	<i>Taylor</i>		
Comments			

**WATERCOURSE**

Attribute	Field Data Type	Field Property
CrkClass	Text	11
CrkName	Text	33
Surv_Method	Text	11
Surv_YYYY_MM	Text	11
Surveyor	Text	11
Company	Text	50
Width	Text	11
Gradient	Text	11
FishSpec	Text	50
Unit	Text	11
Comments	Text	50

EXPLANATION:	USE:	Explanation	Example
CrkClass	<i>S1-S6</i>		
	<i>FSZ</i>	fisheries sensitive zone	
	<i>NCD</i>	non-classified drainage	
	<i>UC</i>	unclassified creek	
CrkName		name	
Surv_Method	<i>GPS</i>		
	<i>hip</i>		
	<i>ortho</i>		
	<i>trim</i>		
Surv_YYYY_MM		survey date	2011-05
Surveyor	<i>TCH</i>	resource tech	
	<i>RFT</i>	reg. prof. tech	
	<i>RPF</i>	reg. prof. forester	
	<i>RPB</i>	reg. prof. biologist	
Company			
Width		in meter, 1 decimal	1.5
Gradient		in %	10
FishSpec			
Unit	<i>Sproat</i>		
	<i>Taylor</i>		
Comments			

**WATERBODY**

Attribute	Field Data Type	Field Property
Data_Type	Text	11
Class	Text	5
Name	Text	20
Surv_Method	Text	11
Surv_YYYY-MM	Text	11
Surveyor	Text	11
Company	Text	50
Width	Text	11
Gradient	Text	11
Fish Spec	Text	50
Unit	Text	11
Comments	Text	50

EXPLANATION:	USE:	Explanation	Example
Data_Type	<i>wet</i> <i>lake</i> <i>fen</i>	wetland	
Class	<i>W1-W5, L1-L4</i> <i>NCW, NCL</i>	not classified wetland/lake	
Name		name	
Surv_Method	<i>GPS</i> <i>hip</i> <i>ortho</i> <i>trim</i>		
Surv_YYYY_MM		survey date	<i>2011-05</i>
Surveyor	<i>Tch</i> <i>RFT</i> <i>RPF</i> <i>RPB</i> <i>GIS</i>	resource tech reg. prof. tech reg. prof. forester reg. prof. biologist GIS tech	
Company		name	
Unit	<i>Sproat</i> <i>Taylor</i>		
Comments			

**LINE**

Attribute	Field Data Type	Field Property
Data_Type	Text	11
Label	Text	50
Unit	Text	11
Comments	Text	50

EXPLANATION:	USE:	Explanation	Example
Data_Type	<i>hydro</i> <i>gas</i> <i>water</i> <i>bluff</i> <i>fence</i>	hydroline gasline waterline bluff, rock	
Label		map label	
Unit	<i>Sproat</i> <i>Taylor</i>		
Comments			

**SYMBOL**

Attribute	Field Data Type	Field Property
Data_Type	Text	11
Station	Text	22
Culvert	Text	22
Bridge	Text	22
Culv_Size	Text	22
Bridge_Size	Text	22
Label	Text	50
Unit	Text	11
Comments	Text	50

**EXPLANATION:**

	USE:	Explanation	Example
Data_Type	<i>fc</i>	falling corner	
	<i>ldg</i>	permanent landing	
	<i>ldgtemp</i>	temporary landing	
	<i>sta</i>	road station	
	<i>culv</i>	culvert station	
	<i>br</i>	bridge station	
	<i>brout</i>	bridge out station	
	<i>rq</i>	rock quarry	
	<i>gt</i>	Gate	
	<i>lt</i>	leave tree	
	<i>wt</i>	wildlife tree	
	<i>w</i>	wildlife feature	
	<i>cmt</i>	CMT	
	<i>swamp</i>	swamp	
	<i>spoil</i>	spoil site	
	<i>leg mon</i>	legal monument	
	<i>heli</i>	heli pad	
	<i>hd</i>	heli drop area	
	<i>rr</i>	root rot centre	
	<i>cross</i>	designated crossing	
	<i>parking</i>	parking	
	<i>camp</i>	campground	
	<i>picnic</i>	picnic area	
	<i>rk</i>	rock quarry	
	<i>wfal</i>	windfall	
Station		road station	1+234
Culvert		culvert station	0+456
Bridge		bridge station	1+321
Culv_Size		culvert size	600
Bridge_Size		bridge size	
Label		map label	
Unit	<i>Sproat</i>		
	<i>Taylor</i>		
Comments			

DIGITAL FILES MUST BE VECTOR AND POLY CLEAN. The standards for Level 3 topology (see definition below) must be met in order for the files to be accepted. The following errors are unacceptable: dangling nodes, undershoots, intersection errors, zero area polygons, and label point errors.

**Level 3 - Full Implicit Topology**

*This level of topology expands Level 2 topology to include the structuring of the spatial data to adhere to a set of rules or conditions including: "continuity rule", "polygon closure rule", "right hand rule", "connectivity and network rule", "downstream rule", "horizontal feature rule", and "point in polygon rule". Duplicate data is only tolerated to close polygonal features. Annotation on spatial features exists as text elements, not explicitly related in the data structure to the spatial feature.*

*Level 3 topology is the highest level of spatial topology achievable without using non-spatial data linkages or complex spatial data models.*

The Contractor is responsible for insuring that all digital files have undergone adequate quality control procedures before delivery.

The medium for digital data delivery is on a recordable Compact Disk (CD) and upload to the AVCFdata cloud.