

Appendix A

Project Location Worksheet

Applicant Name:

Stream Name:		Watershed Name:	
Fish Habitat Suitability Classification (check appropriate box(s):	Operation Standard	<input type="checkbox"/> Water Quality Zone <input type="checkbox"/> Low <input type="checkbox"/> Moderate-Low <input type="checkbox"/> Moderate-Moderate	<input type="checkbox"/> Lake Tributary <input type="checkbox"/> Lake Tributary <input type="checkbox"/> Lake Tributary <input type="checkbox"/> Lake Tributary <input type="checkbox"/> Moderate-High <input type="checkbox"/> High (Chinook Production) <input type="checkbox"/> High (Areas of Special Consideration)
	Restoration Standard	<input type="checkbox"/> Water Quality Zone <input type="checkbox"/> Low <input type="checkbox"/> Moderate-Low <input type="checkbox"/> Moderate-Moderate	<input type="checkbox"/> Lake Tributary <input type="checkbox"/> Lake Tributary <input type="checkbox"/> Lake Tributary <input type="checkbox"/> Lake Tributary <input type="checkbox"/> Moderate-High <input type="checkbox"/> High (Chinook Production) <input type="checkbox"/> High (Areas of Special Consideration)

Watershed Sensitivity Classification: Category A Category B

Prior Development Designation Yes No Duration of proposed works: _____ (years)

Discharge Standard (mg/L, ml/L):	Design: _____ (mg/L, ml/L)	Action: _____ (mg/L, ml/L)	Compliance: _____ (mg/L, ml/L)
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Propose to Withdraw Water: Yes No

All intakes will incorporate intake screens as per workbook: Yes No

Propose to Use Existing Ford: Yes No

Description of project location:

Insert or attach map below showing proposed location of placer mine

	North Arrow

Appendix B

Riparian Zone / Bank Modification Design Worksheet

Applicant Name:

Stream Name:

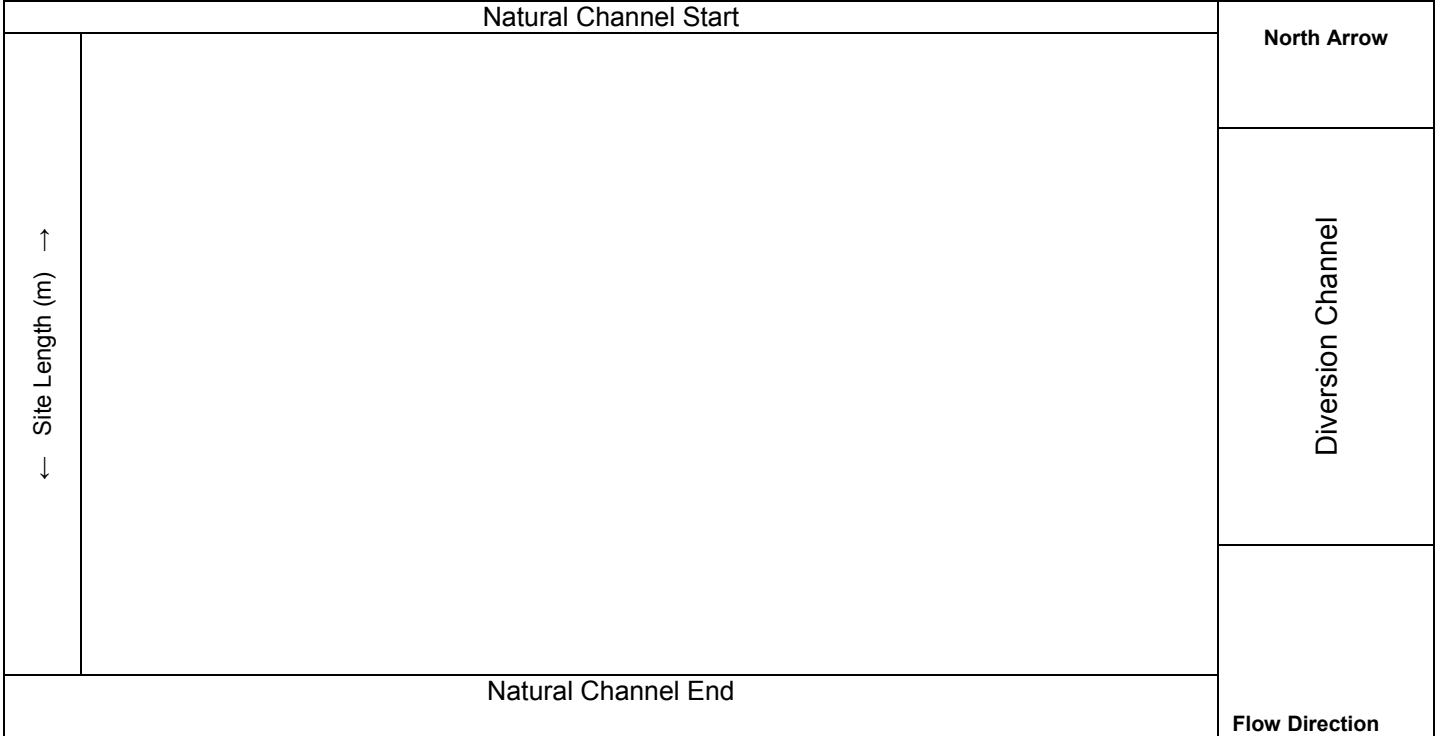
Riparian Zone

Duration of Proposed Vegetation Clearing:	(years)	Total Length of Proposed Vegetation Clearing:	(m)
Habitat Suitability Type:		Width of proposed Works:	(m)
Designated Setback Distance:	(m)	Actual Setback Distance:	(m)

Bank Modification

Duration of Proposed Bank Modification:	(years)	Total Length of Proposed Bank Modification:	(m)
Habitat Suitability Type:		Width of proposed Works:	(m)
Minimum Setback Distance:	(m)	Actual Setback Distance:	(m)

Do You Propose to Construct a New Ford: Yes No Are Existing Fords Present: Yes No



Use the following symbols to indicate proposed works on map.

Riparian Clearing:		Riparian Boundary:	-----
Bank Modification and Clearing:	xxxxxxxx	Stream Bank:	_____
Previously Reclaimed Area:		Undisturbed Vegetation:	
New Fords:		Existing Fords:	

Required Reclamation Works (from workbook tables)

	Vegetation Clearing Requirement	Bank Modification Requirement
Grading:		
Surface:		
Vegetation:		

Applicant Name:		Guidebook Reference Section																																												
Channel Morphology:	Straight <input type="checkbox"/> Meandering <input type="checkbox"/> Braided <input type="checkbox"/>	2.2.2																																												
Channel Floodplain Type:	None <input type="checkbox"/> Narrow <input type="checkbox"/> Wide <input type="checkbox"/>	2.2.3																																												
Valley Length:	(metres)	2.2.4																																												
Floodplain Width:	<p style="text-align: center;">Note all measurements must be in metres.</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">Site</th> <th style="text-align: center;">Width</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td><input type="text"/></td><td rowspan="6" style="vertical-align: middle; text-align: center;">m</td></tr> <tr><td>2</td><td><input type="text"/></td></tr> <tr><td>3</td><td><input type="text"/></td></tr> <tr><td>4</td><td><input type="text"/></td></tr> <tr><td>5</td><td><input type="text"/></td></tr> <tr><td>6</td><td><input type="text"/></td></tr> <tr> <td colspan="2" style="text-align: right;">Total of 1 to 6 above:</td> <td><input type="text"/></td> </tr> <tr> <td colspan="2" style="text-align: right;">Average width (total divided by 6):</td> <td style="background-color: #e0e0e0;"><input type="text"/></td> </tr> </tbody> </table>	Site	Width		1	<input type="text"/>	m	2	<input type="text"/>	3	<input type="text"/>	4	<input type="text"/>	5	<input type="text"/>	6	<input type="text"/>	Total of 1 to 6 above:		<input type="text"/>	Average width (total divided by 6):		<input type="text"/>	2.2.5																						
Site	Width																																													
1	<input type="text"/>	m																																												
2	<input type="text"/>																																													
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Total of 1 to 6 above:		<input type="text"/>																																												
Average width (total divided by 6):		<input type="text"/>																																												
Change in Streambed Elevation:	m	2.2.6																																												
Natural Channel Grade:	%	2.2.7																																												
Flow Velocity Estimate:	Metres/second	2.2.8																																												
Original Channel Length :	(metres)	2.2.9																																												
Channel Width and Depth:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Site</th> <th style="text-align: center;">Width</th> <th></th> <th style="text-align: left;">Site</th> <th style="text-align: center;">Depth</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td><td><input type="text"/></td><td rowspan="6" style="vertical-align: middle; text-align: center;">(metres)</td> <td>1</td><td><input type="text"/></td><td rowspan="6" style="vertical-align: middle; text-align: center;">(metres)</td> </tr> <tr><td>2</td><td><input type="text"/></td><td>2</td><td><input type="text"/></td></tr> <tr><td>3</td><td><input type="text"/></td><td>3</td><td><input type="text"/></td></tr> <tr><td>4</td><td><input type="text"/></td><td>4</td><td><input type="text"/></td></tr> <tr><td>5</td><td><input type="text"/></td><td>5</td><td><input type="text"/></td></tr> <tr><td>6</td><td><input type="text"/></td><td>6</td><td><input type="text"/></td></tr> <tr> <td colspan="2" style="text-align: right;">Total 1 to 6 Above:</td> <td></td> <td colspan="2" style="text-align: right;">Total 1 to 6 Above:</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Average (Total / 6)</td> <td></td> <td colspan="2" style="text-align: right;">Average (Total / 6)</td> <td style="background-color: #e0e0e0;"><input type="text"/></td> </tr> </tbody> </table>	Site	Width		Site	Depth		1	<input type="text"/>	(metres)	1	<input type="text"/>	(metres)	2	<input type="text"/>	2	<input type="text"/>	3	<input type="text"/>	3	<input type="text"/>	4	<input type="text"/>	4	<input type="text"/>	5	<input type="text"/>	5	<input type="text"/>	6	<input type="text"/>	6	<input type="text"/>	Total 1 to 6 Above:			Total 1 to 6 Above:			Average (Total / 6)			Average (Total / 6)		<input type="text"/>	2.2.10
Site	Width		Site	Depth																																										
1	<input type="text"/>	(metres)	1	<input type="text"/>	(metres)																																									
2	<input type="text"/>		2	<input type="text"/>																																										
3	<input type="text"/>		3	<input type="text"/>																																										
4	<input type="text"/>		4	<input type="text"/>																																										
5	<input type="text"/>		5	<input type="text"/>																																										
6	<input type="text"/>		6	<input type="text"/>																																										
Total 1 to 6 Above:			Total 1 to 6 Above:																																											
Average (Total / 6)			Average (Total / 6)		<input type="text"/>																																									
Channel Type (circle)	Dune-Ripple / Pool-Riffle / Plane-Bed / Step-pool / Cascade	2.2.11																																												
Channel Bed Material:	Record the most abundant size class <input type="text"/> mm, in (circle) Record the second most abundant size class <input type="text"/> Record the third most abundant size class <input type="text"/>	2.2.12																																												

Appendix D1

Severity of Effects Assessment for Seasonal Diversion Channel Worksheet

(Not applicable to High, Moderate-high and Moderate-moderate suitability habitat)

Applicant Name:		Stream Name:	
Design Component	Range	Range Score	Project Score
Channel gradient	3.51% to 5.0%	3	
	1.51% to 3.5%	2	
	0 to 1.5%	1	
Length of diversion channel	1000 to 2000 metres	2	
	<1000 metres	1	
Relative length of diversion channel	Shorter than original	1	
	Equal or Longer than original	0	
Permafrost in diversion channel	Present	3	
	Absent	0	
Primary material in diversion channel	Silt / Sand	2	
	Gravel / Cobble / Bedrock	1	
Location of diversion channel	Perched (valley wall)	4	
	Confined (valley floor)	2	
	Incised (valley floor)	1	
Project Score for Seasonal Diversion Channels			

Maximum permitted score for Seasonal diversion in Moderate-low suitability habitat: **11**
 Maximum permitted score for Seasonal diversion in Freshwater Fisheries Production zones: **13**

Appendix D2

Severity of Effects Assessment for Temporary Diversion Channel Worksheet

(Not applicable to High and Moderate-high suitability habitat)

Applicant Name:		Stream Name:	
Design Component	Range	Range Score	Project Score
Channel gradient	3.51% to 5.0% (Not applicable to Moderate-moderate suitability habitat)	3	
	1.51% to 3.5%	2	
	0 to 1.5%	1	
	2000 to 5000 metres (Not applicable to Moderate-moderate suitability habitat)	3	
Length of diversion channel	1000 to 2000 metres	Moderate-moderate	3
		Moderate-low	2
		Freshwater Fisheries Production	2
	500 to 1000 metres		2
	<500 metres		1
Relative length of diversion channel	Shorter than original	1	
	Equal or Longer than original	0	
Permafrost in diversion channel	Present (Not applicable to Moderate-moderate suitability habitat)	2	
	Absent	0	
Primary material in diversion channel	Silt / Sand	2	
	Gravel / Cobble / Bedrock	1	
	Perched (valley wall) (Not applicable to Moderate-moderate suitability habitat)	4	
Location of diversion channel	Confined (valley floor)	2	
	Incised (valley floor)	1	
Fish habitat features (rock islands / boulder groupings only)	Moderate-moderate (50% of total amount required for permanent channel)	-1	
	Moderate-low and Freshwater Fisheries Production zones (30% of total amount required for permanent channel)		
Project Score for Temporary Diversion Channels			

Maximum permitted score for Temporary diversion in Moderate-moderate suitability habitat: **7**
 Maximum permitted score for Temporary diversion in Moderate-low suitability habitat: **10**
 Maximum permitted score for Temporary diversion in Freshwater Fisheries Production zones: **12**

Appendix D3

Channel Design Flood Estimate Worksheet

(NOTE: a separate Appendix D3 is required for each Habitat Suitability type)

Applicant Name:

Guidebook Reference Section

Stream Name:

1. Required Flood Design Interval: **2.3.3**

Permanent Restoration Channel	:	Temporary Diversion	:	Seasonal Diversion	:		2.3.4
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(Refer to guidelines for applicable Habitat Suitability type and list it here:

2. Calculated Severity of Effects Assessment Score for diversions:

3. Upstream Drainage Area Calculation:

A. Topographic Map Scale (circle): (1:50,000 or 1:250,000)

B. Number of large (solid line) squares (1cm x 1cm):

C. Number of small (solid line) squares (0.5cm x 0.5cm):

D. Area within large (solid line) squares	=	Number of large squares	x	Area Factor
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	=		x	1.5625
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	=		Km ²	
--	---	--	-----------------	--

E. Area within small (dashed line) squares	=	Number of small squares	x	Area Factor
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	=		x	0.0625
--	---	--	---	---------------

	=		Km ²	
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Area within small solid squares

F. Total drainage area	=	Area within large solid squares	+	
------------------------	---	---------------------------------	---	--

	=		+	
--	---	--	---	--

	=		km ²	
--	---	--	-----------------	--

4. Determine Hydrologic Zone

A. Upstream streambed elevation	=		ft / m (circle one)	2.3.5
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B. Downstream streambed elevation	=		ft / m (circle one)
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C. Channel length between up and downstream elevations	=		(m)	
--	---	--	-----	--

D. Average upstream	=	Upstream elevation	-	Downstream elevation	x 100%
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Channel Slope				Channel length	
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	=		-		x 100%
--	---	--	---	--	--------

--	--	--	--	--	--

	=		%		
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		Mountain / Interior		Mountain (slope greater than or equal to 4.5%)	
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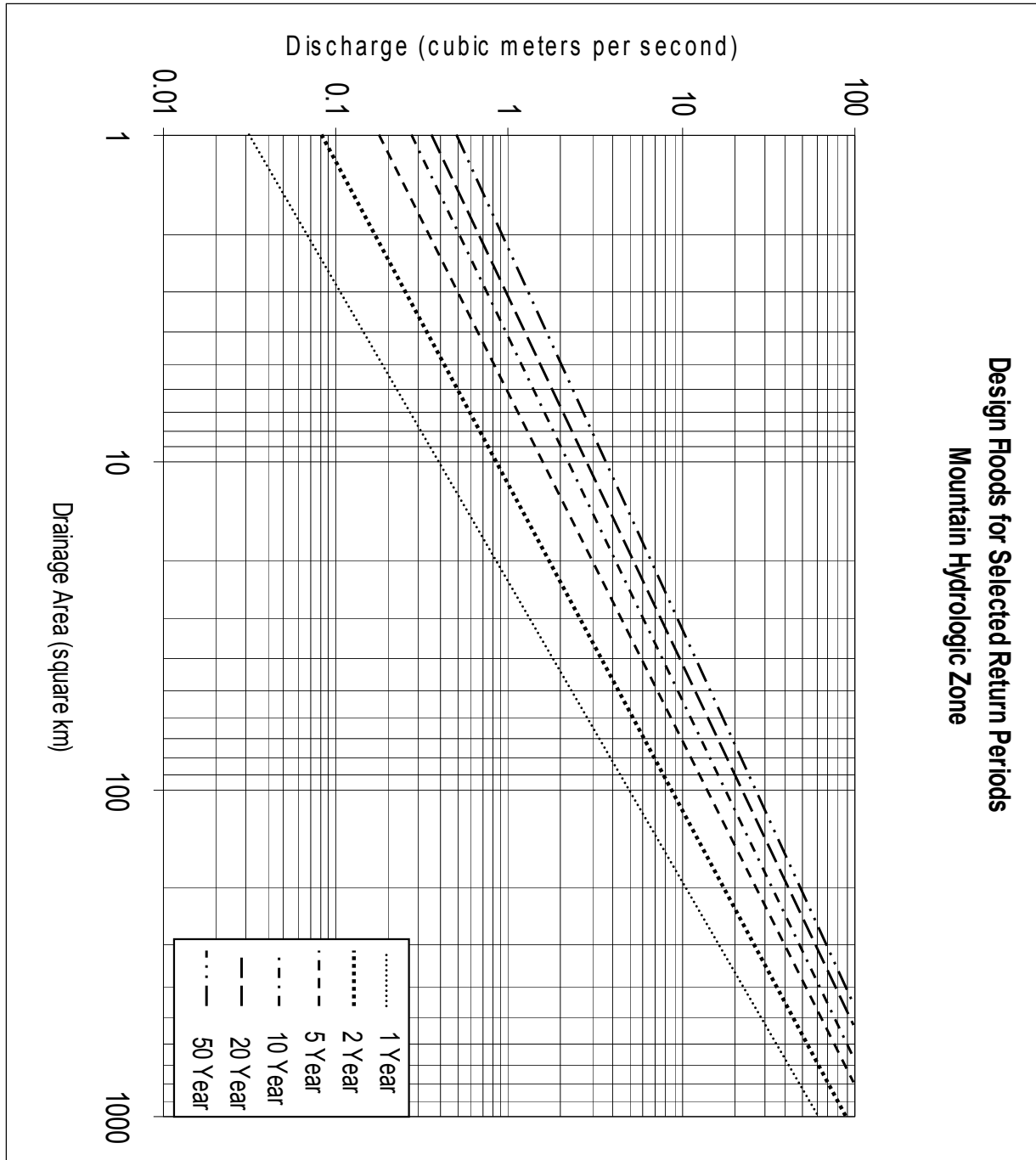
		(circle)		Interior (slope less than 4.5%)	
--	--	----------	--	---------------------------------	--

5. Design Flood Estimate:

A. Use the information from above (Steps 1 to 4) combined with the following graphs to determine the discharge (m^3 / sec) required for your proposed diversion channel.

A1. If the proposed site is located in the Mountain Hydrologic Zone use the following graph.

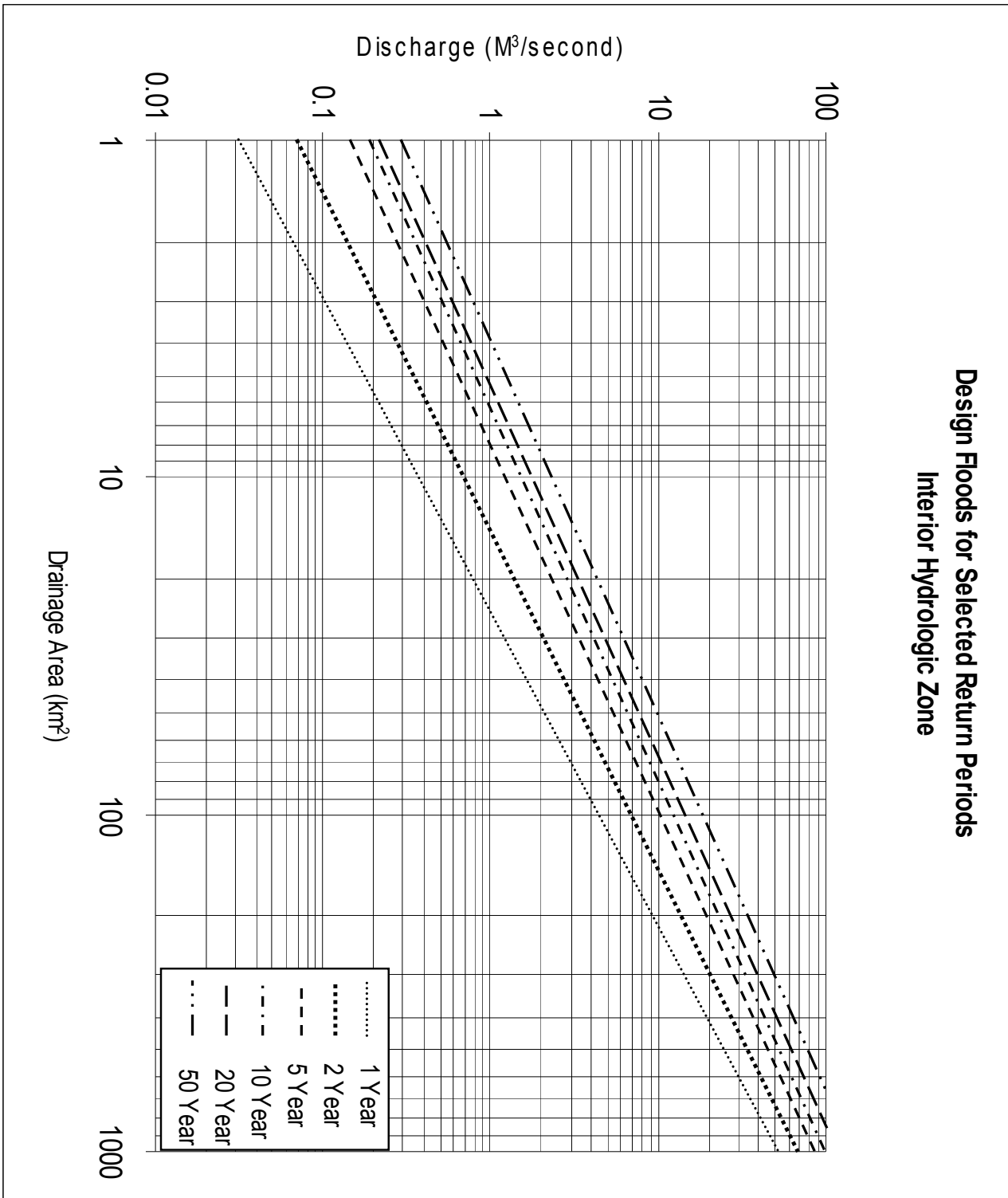
Enter the chart on the horizontal axis (Drainage Area). Draw a vertical straight line up through the appropriate return interval line on the graph. Draw a horizontal straight line to the left axis (left side of chart) from the intersection point with the vertical line. Read the Discharge on the left axis.



A2. Record the Required Diversion Channel Design Discharge :

m^3 / sec

B1. If the proposed site is located in the Interior Hydrologic Zone use the following graph.



B2. Record the Required Diversion Channel Design Discharge:

m³ / sec

Applicant Name:

Stream Name:

A. Required Diversion Channel Width:

$$\begin{aligned} \text{Diversion Channel Width} &= \text{Average Original channel width (m)} \times 1.2 \\ &= \boxed{} \text{ metres} \end{aligned}$$

$$\begin{aligned} \text{Diversion Channel Depth} &= \text{Average original channel depth (m)} \times 1.5 \\ &= \boxed{} \text{ metres} \end{aligned}$$

2.3.7

B. Original Channel Grade: $\boxed{}$ %

C. Proposed Channel Length: $\boxed{}$ metres

D. Is the diversion channel length less than the natural channel length?

- If Yes drop structures are required
- If No drop structures are not required

E. Required Number of Drop Structures

$$\begin{aligned} \text{Diversion Channel Bed Elevation Change} &= \text{Proposed Channel Length} \times \frac{\text{Channel Grade}}{100} \\ &= \boxed{} \times \frac{\boxed{}}{100} \\ &= \boxed{} \text{ metres} \end{aligned}$$

$$\begin{aligned} \text{F. Total Height of Drop Structures required:} &= \text{Natural channel bed elevation change} - \text{Diversion channel bed elevation change} \\ &= \boxed{} - \boxed{} \\ &= \boxed{} \text{ metres} \end{aligned}$$

G. Number of Drop Structures Required:

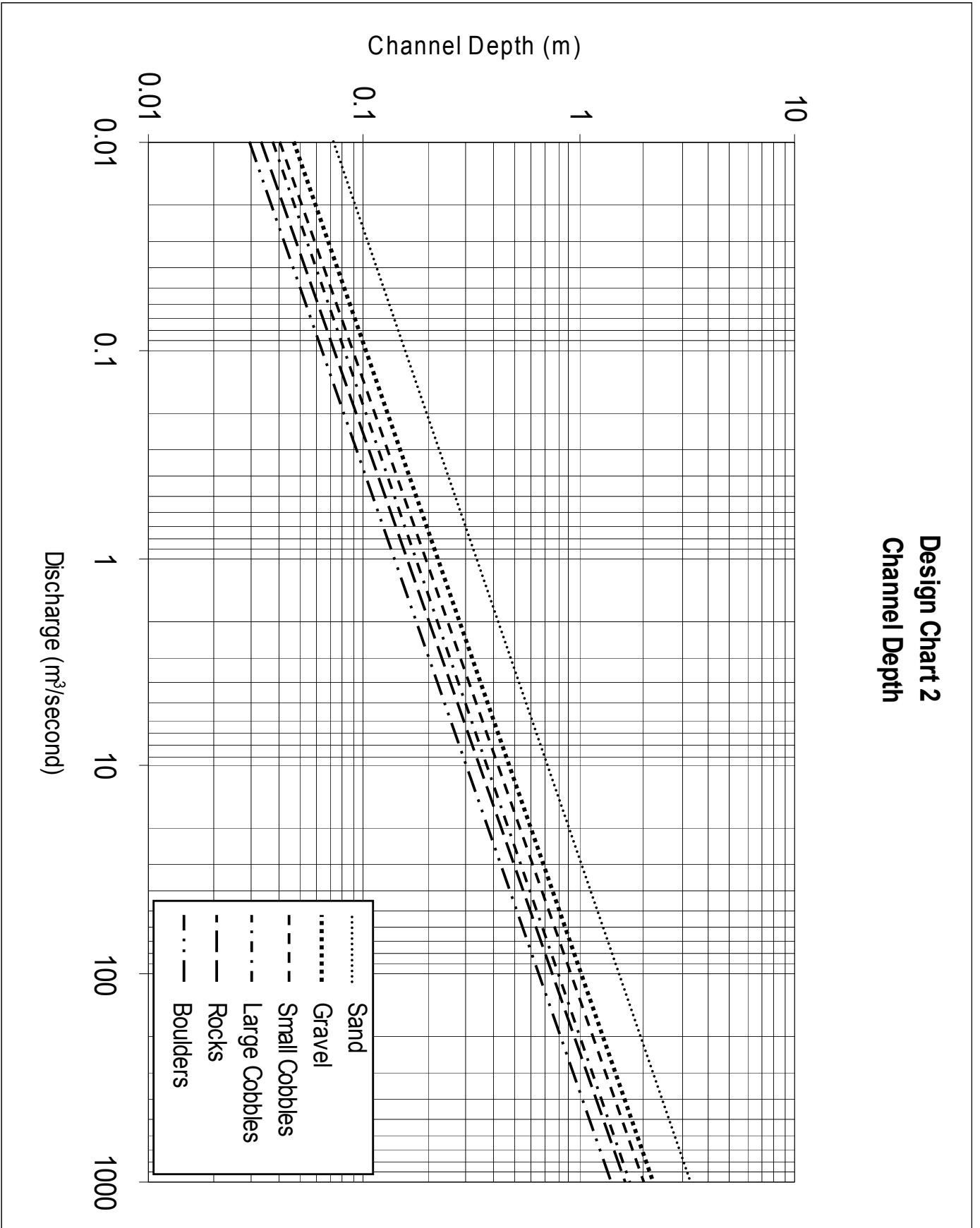
$$\text{Proposed Individual Drop Structure Height} = \boxed{} \text{ metres}$$

$$\begin{aligned} \text{Number of Drop Structures Required} &= \frac{\text{Total Height of Drop Structures}}{\text{Individual Drop Structure Height}} \\ &= \underline{\hspace{10em}} \\ &= \boxed{} \text{ metres} \end{aligned}$$

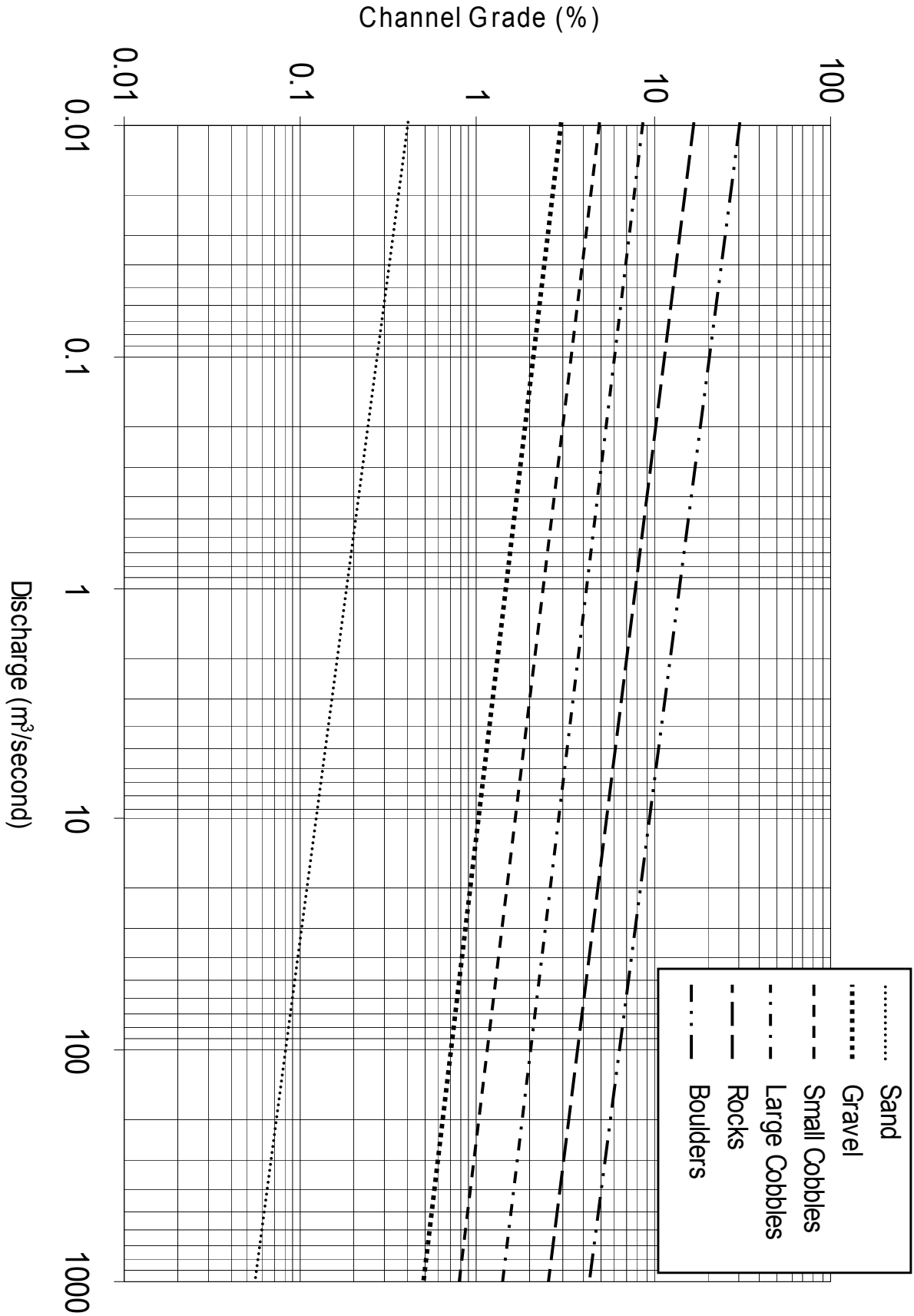
(Use Design Charts 1-4)

Applicant Name:	Guidebook Reference Section															
Stream Name:																
A. Bed Material: Sand / Gravel / Small Cobbles / Large Cobbles / Rocks / Boulders (circle)	2.3.9															
B. Diversion Channel Discharge (m ³ /sec): <input style="width: 80px;" type="text"/> (from section 5 Design Flood Estimate Worksheet)																
C. Diversion Channel Width:																
C1. Use Design Chart 1 based on Discharge and bed Material:	<input style="width: 80px;" type="text"/> metres															
D. Diversion Channel Depth:																
D1. Use Design Chart 2 based on Discharge and Bed Material:	<input style="width: 80px;" type="text"/> metres															
D2. Add additional freeboard based on the following table:																
<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Diversion Channel Width</th> <th style="text-align: left; border-bottom: 1px solid black;">Freeboard</th> </tr> </thead> <tbody> <tr> <td style="padding-left: 20px;">< 5 metres</td> <td>Add 0.5 metres</td> </tr> <tr> <td style="padding-left: 20px;">5 – 10 metres</td> <td>Add 1.0 metre</td> </tr> <tr> <td style="padding-left: 20px;">> 10 metres</td> <td>Add 1.5 metres</td> </tr> </tbody> </table>	Diversion Channel Width	Freeboard	< 5 metres	Add 0.5 metres	5 – 10 metres	Add 1.0 metre	> 10 metres	Add 1.5 metres								
Diversion Channel Width	Freeboard															
< 5 metres	Add 0.5 metres															
5 – 10 metres	Add 1.0 metre															
> 10 metres	Add 1.5 metres															
D3. Total Channel Depth																
<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding-right: 10px;">Channel Depth</td> <td style="padding: 0 10px;">+</td> <td style="padding-right: 10px;">Freeboard</td> <td></td> </tr> <tr> <td style="text-align: center;"><input style="width: 100px;" type="text"/></td> <td style="text-align: center;">+</td> <td style="text-align: center;"><input style="width: 100px;" type="text"/></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">=</td> <td style="text-align: center;"><input style="width: 100px;" type="text"/></td> <td style="padding-left: 10px;">metres</td> </tr> </table>	Channel Depth	+	Freeboard		<input style="width: 100px;" type="text"/>	+	<input style="width: 100px;" type="text"/>			=	<input style="width: 100px;" type="text"/>	metres				
Channel Depth	+	Freeboard														
<input style="width: 100px;" type="text"/>	+	<input style="width: 100px;" type="text"/>														
	=	<input style="width: 100px;" type="text"/>	metres													
C. Channel Grade:																
C1. Use Design Chart 3 based on Discharge and Bed Material:	<input style="width: 80px;" type="text"/> %															
D. Velocity of Flow:																
D1. Use Design Chart 4 based on Discharge and Bed Material:	<input style="width: 80px;" type="text"/> m /sec															
E. Required Channel Length:																
<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding-right: 10px;">Required Length (m)</td> <td style="padding: 0 10px;">=</td> <td style="padding-right: 10px;">$\frac{\text{Change in natural channel bed elevation}}{\text{Required Channel Grade (\%)}}$</td> <td style="padding-left: 10px;">X 100%</td> </tr> <tr> <td></td> <td style="text-align: center;">=</td> <td style="text-align: center;"><input style="width: 250px; height: 20px;" type="text"/></td> <td style="padding-left: 10px;">X100%</td> </tr> <tr> <td></td> <td style="text-align: center;">=</td> <td style="text-align: center;"><input style="width: 80px;" type="text"/></td> <td style="padding-left: 10px;">metres</td> </tr> </table>	Required Length (m)	=	$\frac{\text{Change in natural channel bed elevation}}{\text{Required Channel Grade (\%)}}$	X 100%		=	<input style="width: 250px; height: 20px;" type="text"/>	X100%		=	<input style="width: 80px;" type="text"/>	metres				
Required Length (m)	=	$\frac{\text{Change in natural channel bed elevation}}{\text{Required Channel Grade (\%)}}$	X 100%													
	=	<input style="width: 250px; height: 20px;" type="text"/>	X100%													
	=	<input style="width: 80px;" type="text"/>	metres													
F. Proposed Diversion Channel Length	= <input style="width: 80px;" type="text"/> metres															
G. Diversion Channel Bed Elevation Change:																
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Diversion Channel Bed Elevation Change	=	$\frac{\text{Required Channel Grade (\%)}}{100}$	x	Diversion channel length (m)												
	=	<input style="width: 150px;" type="text"/>	x	<input style="width: 150px;" type="text"/>												
	=	<input style="width: 80px;" type="text"/>		metres												

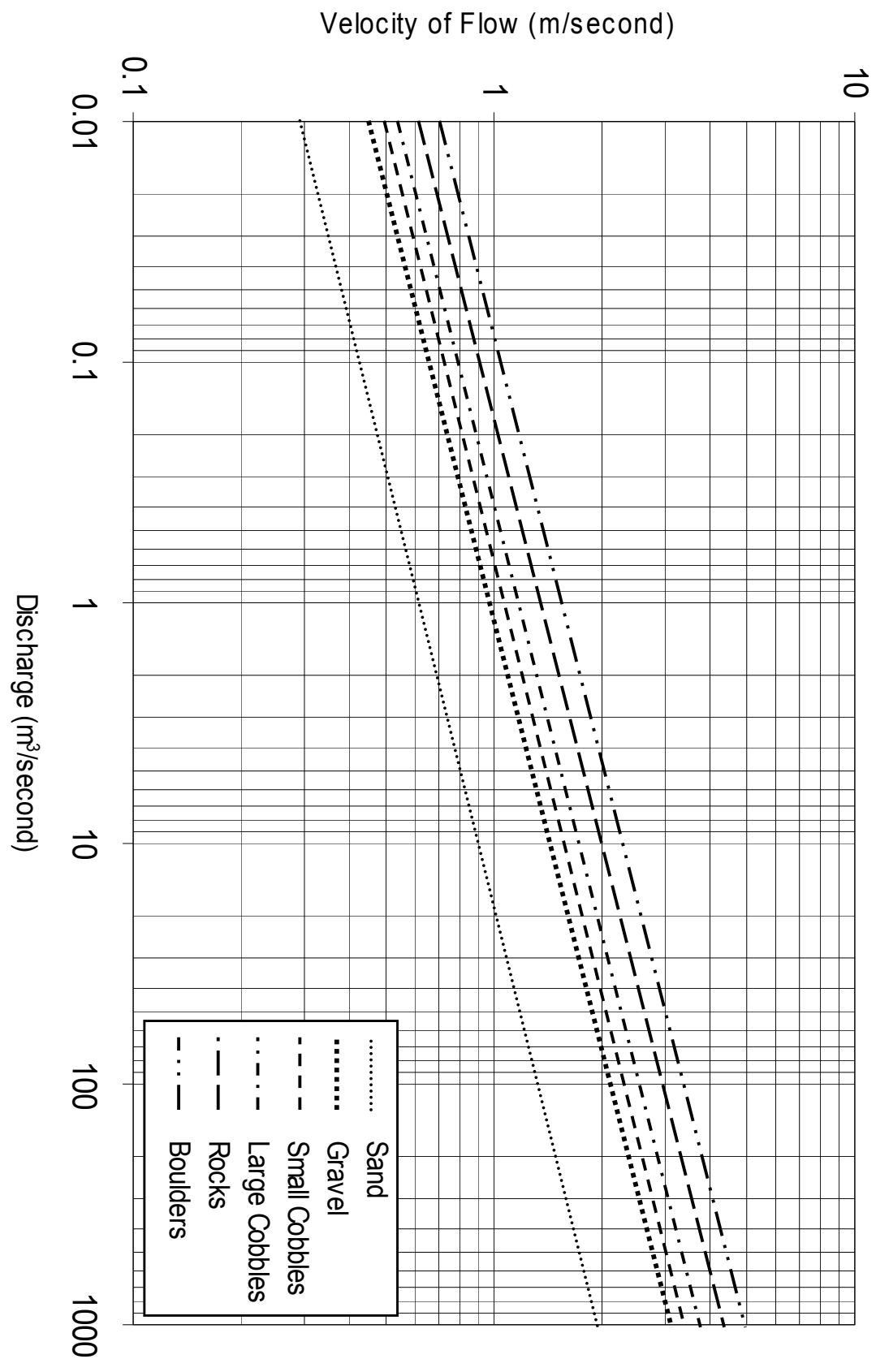
Design Chart 2
Channel Depth



Design Chart 3
Channel Grade



Design Chart 4
Velocity of Flow



Applicant Name:

Stream Name:

Use the template below to draw a schematic of the proposed fish habitat features that will be constructed

Natural Channel Start			North Arrow
Site Length (m) ↑ ↓		Diversion Channel	

Natural Channel End	Flow Direction
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Use the following symbols to indicate habitat feature locations.

Stream Bank	—————	Anchored or buried tree	←
Topsoil	- - - -	Willow staking	vv
Rock Island / Boulder Group	●●●	Transplant	● └
Ford) (Drop Structure	xxxx

Fish Habitat Feature Description	Spacing Requirement (X channel width)	Spacing Proposed (m) (Channel Width x Spacing Requirement)

Appendix G1

Severity of Effects Assessment for In-stream Works Worksheet			
Applicant Name:			
Stream Name:			
Design Component	Range	Risk Score	Project Score
Channel Width Construction	>30% channel constriction (Not applicable for Moderate-high suitability habitat)	3	
	5% - 30% of the channel	2	
	< 5%	1	
Above and Below the Structure – Difference in Water Surface Level	>2.0 m (Not applicable for Moderate-high suitability habitat)	3	
	0.3 – 2.0 m	2	
	< 0.3 m	1	
Material Type	Fine (silt-sand) (Not applicable for Moderate-high, Moderate-moderate, or Moderate-low suitability habitat)	3	
	Compactable (fine gravel and sand)	2	
	Metal/ riprap/ structure	1	
Construction Method	Non-compaction/ dumped	3	
	Moderately compacted/ placement	2	
	Compacted shallow lift (or rip-rap, gabions, or boulders)	1	
Amount of In-water Work	Completely in water	3	
	Partially in water (more than ½)	2	
	In dry	1	
Structure Height	Above bank full	3	
	Between bank full and channel bed	2	
	Below channel bed	1	
PROJECT SCORE FOR IN-STREAM WORKS			


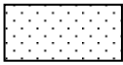

Note – some ranges are not permissible in specific habitat suitability classes.

Note – in-stream settling ponds must be constructed from compactable material that is placed and compacted in shallow lifts.

Maximum permitted score for in-stream works in Moderate-high suitability habitat:	12
Maximum permitted score for in-stream works in Moderate-moderate suitability habitat:	12
Maximum permitted score for in-stream works in Moderate-low suitability habitat:	14
Maximum permitted score for in-stream works in Freshwater Fisheries Production zones:	16
Maximum permitted score for in-stream works in Water Quality zones:	17

Appendix G2

In-stream Works Worksheet

Applicant Name:		Stream Name:	
Do you Propose: Excavation of Dugout <input type="checkbox"/> Stream Channel As Conduit <input type="checkbox"/> Wing Dam <input type="checkbox"/> In-stream Dam <input type="checkbox"/> In-stream Settling <input type="checkbox"/> In-stream Reservoir <input type="checkbox"/>			
Description of the proposed in-stream works.			
Calculated total score from Severity of Effects Assessment table :			
Maximum permitted score for in-stream works :			
Use the template below to draw a schematic of the proposed in-stream works.			
			North Arrow
↑	Site Length (m)		
↓			
			Flow Direction
Use the following symbols to indicate feature locations.			
Stream Bank	—	In-stream Dam	
In-stream Settling Area		Point of Discharge	X
Dugout		Wing Dam	