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**CALIFORNIA SALMONID STREAM  
HABITAT RESTORATION MANUAL**

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**APPENDIX R.**

**FORMS**

**WATERSHED OVERVIEW WORK SHEET**

Date \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Investigator \_\_\_\_\_  
Stream Name \_\_\_\_\_ PNMCD \_\_\_\_\_  
Tributary to \_\_\_\_\_ Tributary to \_\_\_\_\_  
Tributary to \_\_\_\_\_ Tributary to \_\_\_\_\_  
County \_\_\_\_\_ USGS Quad \_\_\_\_\_

Location T \_\_\_\_ R \_\_\_\_ S \_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Access Via \_\_\_\_\_

Hydrologic Boundary Delineation \_\_\_\_\_

Aerial Photos (Source) \_\_\_\_\_  
\_\_\_\_\_

Stream Order \_\_\_\_\_ Total Length \_\_\_\_\_ miles

Drainage Area \_\_\_\_\_ sq. mi. Summer Base Flow \_\_\_\_\_ cfs

Elevations Mouth \_\_\_\_\_ feet Headwaters \_\_\_\_\_ feet

Lakes in Watershed Number \_\_\_\_\_ Surface Area \_\_\_\_\_ sq. mi.

Fish Species (Data Source) \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_

Endangered / Threatened / Sensitive Species (Data Source)  
\_\_\_\_\_, \_\_\_\_\_

Endemic Stocks (Data Source) \_\_\_\_\_

Fishery Management Concept Cold Water: Natural Production \_\_\_\_\_  
Mixed Production \_\_\_\_\_  
Anadromous: Natural Production \_\_\_\_\_  
Mixed Production \_\_\_\_\_  
Warm Water: \_\_\_\_\_  
Other: \_\_\_\_\_

Stream Flow Data (Source) \_\_\_\_\_  
\_\_\_\_\_

Water Quality Data (Source) \_\_\_\_\_  
\_\_\_\_\_

Ownerships in Stream Mi. Federal \_\_\_\_\_ State \_\_\_\_\_ Private \_\_\_\_\_  
Additional Information \_\_\_\_\_

Major Land Uses in the Watershed: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,  
Additional Information \_\_\_\_\_

Comments \_\_\_\_\_  
\_\_\_\_\_

# STREAM CHANNEL TYPE WORK SHEET

Form # \_\_\_\_ of \_\_\_\_

Channel Type \_\_\_\_\_ Channel Change Location (Habitat Unit#) \_\_\_\_\_  
 Cross-Section Location (Habitat Unit#) \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Stream \_\_\_\_\_  
 T \_\_\_\_\_ R \_\_\_\_\_ S \_\_\_\_\_ Surveyors \_\_\_\_\_  
 Quad \_\_\_\_\_ Lat \_\_\_\_\_ Long \_\_\_\_\_

Single Thread Channel \_\_\_\_\_ (Y/N) Multiple Channel \_\_\_\_\_ (Y/N)

Bankfull Width ( $W_{bkf}$ ) = \_\_\_\_\_ (ft.)

**Transect Recording Box**

Dist.																				
Depth																				
Sub.																				

Sum of Depths \_\_\_\_\_

**Dominant Substrate Determination:**

- |    |                      |               |                                   |
|----|----------------------|---------------|-----------------------------------|
|    | <u>Substrate:</u>    | <u>Number</u> |                                   |
| 1. | Bedrock              | = _____       | (Circle Most Frequent Occurrence) |
| 2. | Boulder (>10")       | = _____       |                                   |
| 3. | Cobble (2.5 - 10")   | = _____       |                                   |
| 4. | Gravel (0.08 - 2.5") | = _____       |                                   |
| 5. | Sand (<0.08)         | = _____       |                                   |
| 6. | Silt / Clay          | = _____       |                                   |

**Entrenchment Determination:**

- Step 1: Maximum Bankfull Depth \_\_\_\_\_ x 2 = \_\_\_\_\_ ( $W_{FP}$  Elev.)
- Step 2: Determine Flood-Prone Width at WFP Elevation = \_\_\_\_\_ ( $W_{FP}$ )
- Step 3: Flood-Prone Width ( $W_{FP}$ ) / Bankfull Width ( $W_{bkf}$ ) = Entrenchment  
 $W_{FP}$  \_\_\_\_\_ (ft.) / \_\_\_\_\_ (ft.) = \_\_\_\_\_ (**Entrenchment**)

**Width/Depth Determination:**

- Step 1: Sum of Depths \_\_\_\_\_ / No. Depths \_\_\_\_\_ = Mean Bankfull Depth ( $d_{bkf}$ ) \_\_\_\_\_
- Step 2: Bankfull Width ( $W_{bkf}$ ) / Mean Bankfull Depth ( $d_{bkf}$ ) = Width/Depth Ratio  
 $W_{bkf}$  \_\_\_\_\_ (ft.) /  $d_{bkf}$  \_\_\_\_\_ (ft.) = \_\_\_\_\_ (**W/D Ratio**)

**Sinuosity Determination (Only For A or G Types):**

Stream Length \_\_\_\_\_ / Valley Length \_\_\_\_\_ = Sinuosity \_\_\_\_\_

**Water surface slope Determination:**

Downstream Level - Upstream Level \_\_\_\_\_ / Distance (D) = Energy Gradient  
 DSL \_\_\_\_\_ (ft.) - USL \_\_\_\_\_ (ft.) / (D) \_\_\_\_\_ (ft.) = \_\_\_\_\_

HABITAT INVENTORY DATA FORM										Form #	of	
Date	/	/	Stream Name							T	R	S
Surveyors							Lat.		Lon.			
Quad.			Channel Type			Reach		BFW	@HU#			
Time		H <sub>2</sub> O F°	Air F°		Flow	Pg Length		Totl. Length				
Habitat Unit Number												
Habitat Unit Type												
Side Channel Type												
Mean Length												
Mean Width												
Mean Depth												
Maximum Depth												
Depth Pool Tail Crest												
Pool Tail Embeddedness												
Pool Tail Substrate												
LWD Count D>1&L6to20												
LWD Count D>1&L>20												
Shelter Rating	Shelter Value											
	% Unit Covered											
	% undercut bank											
	% swd (d<12")											
	% lwd (d>12")											
	% root mass											
	% terr. vegetation											
	% aqua. vegetation											
	% bubble curtain											
	% boulders (d>10")											
% bedrock ledges												
Substrate Composition	2 Most Dominant											
	A) Silt/Clay											
	B) Sand											
	C) Gravel (0.08-2.5")											
	D) Sm Cobble (2.5-5")											
	E) Lg Cobble(5-10")											
	F) Boulder (>10")											
	G) Bedrock											
Percent Exposed Substrate												
PERCENT TOTAL CANOPY												
% Hardwood Trees												
% Coniferous Trees												
Bank Composition & Vegetation	Rt Bk Composition											
	Rt Bk Dominant Veg											
	% Rt Bk Vegetated											
	Lft Bk Composition											
	Lft Bk Dominant Veg											
	% Lft Bk Vegetated											
Bank Composition Types			omments: structures channel diversions Tribs Erosion Biota passage Access GPS othe									
1) Bedrock												
2) Boulder												
3) Cobble/Gravel												
4) Silt/Clay/Sand												
<b>Vegetation Types</b>												
5) Grass												
6) Brush												
7) Deciduous Trees												
8) Evergreen Trees												
9) No Vegetation												



**STREAM BANK OR UNDERWATER OBSERVATION FIELD FORM**

Form No. \_\_\_\_\_ of \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Stream Name \_\_\_\_\_ T \_\_\_\_ R \_\_\_\_ S \_\_\_\_

Drainage \_\_\_\_\_

Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Quad: \_\_\_\_\_

Observer(s) \_\_\_\_\_

Time \_\_\_\_\_ Air Temperature \_\_\_\_\_ Water Temperature \_\_\_\_\_

Reach No. \_\_\_\_\_ Habitat Unit No. \_\_\_\_\_ Habitat Type \_\_\_\_\_

Reference Point \_\_\_\_\_

Distance from the confluence or other reference point \_\_\_\_\_

Length of stream sampled in feet \_\_\_\_\_

Observation Method: \_\_\_\_\_ Stream Bank \_\_\_\_\_ Underwater

Species	Size Class	Numbers	Species	Size Class	Numbers

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**DAILY SALMON SPAWNING STOCK SURVEY FIELD FORM**

Stream: \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ S \_\_\_\_\_  
Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Quad: \_\_\_\_\_  
Drainage: \_\_\_\_\_ County: \_\_\_\_\_  
Starting location: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Ending location: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Feet/miles surveyed: \_\_\_\_\_  
Date of survey: \_\_\_\_/\_\_\_\_/\_\_\_\_ Weather: Clear \_\_\_\_\_ Overcast \_\_\_\_\_ Rain \_\_\_\_\_  
Water clarity: 0-2 ft. \_\_\_\_\_ 2-4 ft. \_\_\_\_\_ >4 ft. \_\_\_\_\_  
Water temp: \_\_\_\_\_ Air temp: \_\_\_\_\_ Time: \_\_\_\_\_  
Crew: \_\_\_\_\_

Number of live fish observed: Chinook adults \_\_\_\_\_ Chinook grilse \_\_\_\_\_ Coho \_\_\_\_\_  
Steelhead \_\_\_\_\_ Unknown \_\_\_\_\_

**Number carcasses examined:**

<u>Chinook</u>		<u>Coho</u>	
Male (FL)	Female (FL)	Male (FL)	Female (FL)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**Tag number of adipose clipped fish and snout recoveries:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Other fin clips observed:** \_\_\_\_\_  
\_\_\_\_\_

**Number of skeletons observed:**  
Chinook \_\_\_\_\_ Coho \_\_\_\_\_ Steelhead \_\_\_\_\_ Unknown \_\_\_\_\_

**Number of redds observed:** \_\_\_\_\_

**Comments:**

**ELECTROFISHING FIELD FORM**

Form #      of     

Date    /   /    Stream Name                              Site #     Drainage                              T     R     S    

PNMCD                      Lat                      Long                      Quad                       
 Distance from Confluence   

Reach #                      Channel Type                      Reference Point                               
 Distance from RP    Up                              Down                             

**Personnel:** E-Fish    Netting     
 Measurements    Recorder   

Habitat Unit #.....                 Start Stop Conductivity  
 (μS/cm)

Habitat Unit Type .....                 Time               
 Mean Length .....                 H2O°               
 Flow  
 (cfs)

Mean Width .....                 Air°               
 Mean Depth.....                

Pass#     Effort(s)     +     = **Total Effort(E1)**     (seconds) Freq.                      (Hz)  
 Output Voltage                     

**Species** **Fork Length (mm)**

Species	Fork Length (mm)												

**Summary:** Species                      Catch                      Wt.                      Mortalities                     ;  
 Species                      Catch                      Wt.                      Mortalities                     ;  
 Species                      Catch                      Wt.                      Mortalities                     ;  
 Species                      Catch                      Wt.                      Mortalities                     ;

**Comments:**



**ELECTROFISHING FIELD FORM  
SUPPLEMENTAL PAGE**

Form # \_\_\_\_\_ of \_\_\_\_\_

Date \_\_\_/\_\_\_/\_\_\_ Stream Name \_\_\_\_\_ Site # \_\_\_ Drainage \_\_\_\_\_ Pass # \_\_\_\_\_

**Start Time** \_\_\_\_\_ **End Time** \_\_\_\_\_ **Start Water Temp** \_\_\_\_\_ **End Water Temp** \_\_\_\_\_

**Start Air Temp** \_\_\_\_\_ **End Air Temp** \_\_\_\_\_

Effort(s) \_\_\_\_\_ + \_\_\_\_\_ = **Total Effort (E<sub>2</sub>)** \_\_\_\_\_ (seconds) Freq. \_\_\_\_\_ (Hz) Output Voltage \_\_\_\_\_

Species	Fork Length (mm)															

**Summary:** Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;  
 Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;  
 Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;  
 Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;

**Comments:**

$$(1 - [(N_2 * E_1) / (N_1 * E_2)]) * 100 = \text{Pass Depletion}$$

$$(1 - [( \quad * \quad ) / ( \quad * \quad ) ]) * 100 = \quad \text{Pass \#2 Depletion}$$

Site # \_\_\_\_\_ Pass # \_\_\_\_\_

**Start Time** \_\_\_\_\_ **End Time** \_\_\_\_\_ **Start Water Temp** \_\_\_\_\_ **End Water Temp** \_\_\_\_\_

**Start Air Temp** \_\_\_\_\_ **End Air Temp** \_\_\_\_\_

Effort(s) \_\_\_\_\_ + \_\_\_\_\_ = **Total Effort (E<sub>2</sub>)** \_\_\_\_\_ (seconds) Freq. \_\_\_\_\_ (Hz) Output Voltage \_\_\_\_\_

Species	Fork Length (mm)															

**Summary:** Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;  
 Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;  
 Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;  
 Species \_\_\_\_\_ Catch \_\_\_\_\_ Wt. \_\_\_\_\_ Mortalities \_\_\_\_\_;

**Comments:**

$$(1 - [(N_3 * E_2) / (N_2 * E_3)]) * 100 = \text{Pass Depletion}$$

$$(1 - [( \quad * \quad ) / ( \quad * \quad ) ]) * 100 = \quad \text{Pass \#3 Depletion}$$

# LWD INVENTORY FORM

Stream: \_\_\_\_\_ Sample \_\_\_\_\_ of \_\_\_\_\_ Reach No. \_\_\_\_\_

Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Drainage: \_\_\_\_\_ USGS Quad: \_\_\_\_\_

Reference Point: \_\_\_\_\_ Sample Length (Ft) \_\_\_\_\_

Reach Location (Feet From Ref.Pt) Start \_\_\_\_\_ Stop \_\_\_\_\_ Total \_\_\_\_\_

Lat \_\_\_\_ N Long \_\_\_\_ W (Reach start or Ref.Pt.) T \_\_\_\_ R \_\_\_\_ S \_\_\_\_

Surveyors: \_\_\_\_\_

**CHANNEL CHARACTERISTICS** (Attach Channel Typing Form)

Discharge Q \_\_\_\_\_ cfs Gradient \_\_\_\_\_ % Channel Type: \_\_\_\_\_

Percent Substrate in Boulders: (1'- 3') \_\_\_\_\_%; (>3') \_\_\_\_\_%

Air Temp \_\_\_\_\_ Water Temp \_\_\_\_\_

	Right Bank				Stream				Left Bank			
	% Slope _____ Dom. Veg. _____				Dom. Veg. _____				% Slope _____ Dom. Veg. _____			
	D/D	D/S	P e r	Live C D	Dead/ Down	D/S	Live C D	D/D	D/S	P e r	Live C D	
1-2d												
6-20												
Root												
1-2d												
>20'												
2-3d												
6-20												
Root												
2-3d												
>20'												
3-4d												
6-20												
Root												
3-4d												
>20'												
>4d												
6-20												
Root												
>4d												
>20'												

Note any LDAs (log jams), estimate size LxWxH and no. pieces. Note if gravel is retained upstream. Tally live conifer "C" and deciduous "D" trees separately. Tally root wads by diameter of "trunk". Include root wads <6' total length.

**Comments:**

# ESTIMATE CALIBRATION FORM

Stream Name \_\_\_\_\_ Date \_\_\_\_\_

Surveyors \_\_\_\_\_

Reach No. \_\_\_\_\_

	Right Bank		Stream				Left Bank	
Sample	EST DIA.	TRUE DIA.	EST DIA.	TRUE DIA.	EST LENG.	TRUE LENG.	EST DIA.	TRUE DIA.
%								
Dis								

Reach No. \_\_\_\_\_

	Right Bank		Stream				Left Bank	
Sample	EST DIA.	TRUE DIA.	EST DIA.	TRUE DIA.	EST LENG.	TRUE LENG.	EST DIA.	TRUE DIA.
%								
Dis								

### Calibration Form Key

- Stream Name:** Enter name of stream
- Date:** Enter date of survey (mm/dd/yy)
- Surveyors:** Enter name of persons conducting the survey
- Reach No.:** The number that corresponds with the Reach No. on the LWD Survey Form.
- Sample:** The number corresponding with the Sample No. on the LWD Survey Form.
- EST DIA.:** Enter the estimated diameter.
- TRUE DIA.:** Enter the measured diameter.
- EST LENG.:** Enter the estimated length.
- TRUE LENG.:** Enter the measured length.
- %** Enter the average percent difference between estimate and true.
- Dist.:** Enter the 50-foot distance estimate and measurement.

**PROJECT SITE COMPLETION FORM**

**Stream:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Page** \_\_\_\_\_ **of** \_\_\_\_\_

**Contractor/Organization:** \_\_\_\_\_

**Inspector:** \_\_\_\_\_ **Contract No.:** \_\_\_\_\_ **FY:** \_\_\_\_/\_\_\_\_

**Landowner:** \_\_\_\_\_

**Estimated Cost:** \_\_\_\_\_

**Length of Project/Numbers of Structures:** \_\_\_\_\_

**Reference Point:** \_\_\_\_\_ **Lat:** \_\_\_\_\_ **Long:** \_\_\_\_\_

**Feet From Reference Point:** \_\_\_\_\_  UP /  DN **Channel Type:** \_\_\_\_\_

**Constructed Using:**  Hand Crew  Heavy Equipment  Both

**Project Objective:**  Instream Habitat  Erosion Control  Fish Passage

**Type of structure:** \_\_\_\_\_

<b>Project Completion Check Points:</b>	<b>YES</b>	<b>NO</b>	
1. Project techniques according to manual	<input type="checkbox"/>	<input type="checkbox"/>	If no, explain: _____ _____
2. Materials of recommended type and size	<input type="checkbox"/>	<input type="checkbox"/>	If no, explain: _____ _____
3. Structure positioned correctly to meet objectives	<input type="checkbox"/>	<input type="checkbox"/>	If no, explain: _____ _____
4. Followed permit(s) specifications	<input type="checkbox"/>	<input type="checkbox"/>	If no, explain: _____ _____
5. Landowner(s) agreed with work and materials used	<input type="checkbox"/>	<input type="checkbox"/>	If no, explain: _____ _____

**Original Habitat Type:** \_\_\_\_\_ **Target Habitat Type:** \_\_\_\_\_

**Habitat Maximum Depth:** \_\_\_\_\_ **ft.** **Bankfull Stream Width:** \_\_\_\_\_ **ft.**

**Comments:** \_\_\_\_\_  
\_\_\_\_\_

**If Revegetation:**  Riparian  Upslope  Both (photo required for revegetation.)

**Describe Density or Coverage:** \_\_\_\_\_  
\_\_\_\_\_

**Photographs:**  Yes  No **If yes, location of photographs:** \_\_\_\_\_  
\_\_\_\_\_

**STREAM HABITAT ENHANCEMENT PROJECT EVALUATION**

**GENERAL PROJECT INFORMATION FORM**

STREAM: \_\_\_\_\_ WATERSHED: \_\_\_\_\_

EVALUATOR: \_\_\_\_\_ DATE: \_\_\_\_\_

CONTRACT NO.: \_\_\_\_\_ FY: \_\_\_\_/\_\_\_\_ FUND SOURCE: \_\_\_\_\_

DFG CONTACT: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_

DOES THIS CONTRACT INCLUDE OTHER STREAMS OR LOCATIONS: Y \_\_\_ N \_\_\_

AMOUNT SPENT ON EVALUATED PORTION OF CONTRACT: \$ \_\_\_\_\_  
(May include total contract amount or a portion of contract)

PROPERTY OWNER: \_\_\_\_\_

ACCESS DIRECTIONS: \_\_\_\_\_

CHANNEL TYPE(S): \_\_\_\_\_ STREAM ORDER: \_\_\_\_\_ DRAINAGE AREA (SQ MI): \_\_\_\_\_

USGS QUAD (7.5 MIN): \_\_\_\_\_

PROJECT LOCATION AT DOWNSTREAM END: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_

DATE PROJECT COMPLETED: MONTH \_\_\_\_\_ YEAR \_\_\_\_\_

DATE OF LAST EVALUATION: MONTH \_\_\_\_\_ YEAR \_\_\_\_\_

PRE-PROJECT EVALUATION OR DATA AVAILABLE: Y \_\_\_ N \_\_\_ IF YES WHERE? \_\_\_\_\_

ARE AS-BUILT DATA OR PROPOSED DESIGNS AVAILABLE: Y \_\_\_ N \_\_\_ IF YES WHERE? \_\_\_\_\_

NO. OF STRUCTURES CONSTRUCTED: \_\_\_\_\_ NO. OF STRUCTURES EVALUATED: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

NUMBER OF EVALUATION PAGES ASSOCIATED WITH THIS FORM: \_\_\_\_\_

GENERAL PROJECT EVALUATION OR COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**STREAM HABITAT ENHANCEMENT PROJECT EVALUATION  
INDIVIDUAL STRUCTURE OR SITE FORM**

STREAM: \_\_\_\_\_ DRAINAGE: \_\_\_\_\_ PAGE \_\_\_\_\_ of \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ STREAM PNAME: \_\_\_\_\_ PNAME CODE: \_\_\_\_\_

EVALUATOR(s): \_\_\_\_\_ CONTRACT NO.: \_\_\_\_\_ FY: \_\_\_\_/\_\_\_\_

REFERENCE POINT: \_\_\_\_\_ LAT: \_\_\_\_\_ LONG: \_\_\_\_\_  
(DECIMAL DEGREES) (DECIMAL DEGREES)

FEET FROM REFERENCE POINT: \_\_\_\_\_  UP  DN CHANNEL TYPE: \_\_\_\_\_

RESTORATION OBJECTIVE:  1  2  3 TYPE OF STRUCTURE: \_\_\_\_\_

HOW WELL IS STRUCTURE MEETING HABITAT OBJECTIVE? (circle number)

**1 (EXCELLENT)** \_\_\_\_\_ **2 (GOOD)** \_\_\_\_\_ **3 (FAIR)** \_\_\_\_\_ **4 (POOR)** \_\_\_\_\_ **5 (NO VALUE)** \_\_\_\_\_

COMMENTS: \_\_\_\_\_

CONDITION OF STRUCTURE - consider structural integrity only (circle number):

**1 (EXCELLENT)** \_\_\_\_\_ **2 (GOOD)** \_\_\_\_\_ **3 (FAIR)** \_\_\_\_\_ **4 (POOR)** \_\_\_\_\_ **5 (NO VALUE)** \_\_\_\_\_

COMMENTS: \_\_\_\_\_

STRUCTURE PROBLEMS (check appropriate items):

- |  |   |
|--|---|
| 1. <input type="checkbox"/> ANCHOR FAILURE,    | 8. <input type="checkbox"/> LOGS/BOULDERS STRANDED OUT OF CHANNEL,  |
| 2. <input type="checkbox"/> CABLE FAILURE,     | 9. <input type="checkbox"/> BANK EROSION AT SITE AND/OR DOWNSTREAM, |
| 3. <input type="checkbox"/> CHANNEL SHIFT,     | 10. <input type="checkbox"/> CREATED SEDIMENT TRAP,                 |
| 4. <input type="checkbox"/> BOULDER/LOG SHIFT, | 11. <input type="checkbox"/> POOR DESIGN,                           |
| 5. <input type="checkbox"/> UNDERMINED,        | 12. <input type="checkbox"/> POOR PLACEMENT,                        |
| 6. <input type="checkbox"/> BURIED BY BEDLOAD, | 13. <input type="checkbox"/> EX-FENCE FAILURE,                      |
| 7. <input type="checkbox"/> UNDERBUILT,        | 14. <input type="checkbox"/> OTHER.                                 |

COMMENTS: \_\_\_\_\_

Repair recommended:  Yes  No Enhancement to improve cover or effectiveness recommended:  Yes  No

HABITAT TYPE (associated with structure) \_\_\_\_\_ BANKFULL STREAM WIDTH \_\_\_\_\_ FT.

MAXIMUM POOL DEPTH \_\_\_\_\_ FT. DEPTH OF POOL TAIL CREST \_\_\_\_\_ FT.

SHELTER COMPLEXITY:  0  1  2  3 × SHELTER % COVER: \_\_\_\_\_ = SHELTER RATING: \_\_\_\_\_

OBSERVED SALMONIDS NO.: 0+ \_\_\_\_\_, 1+ \_\_\_\_\_, 2+ \_\_\_\_\_, ADULTS \_\_\_\_\_, REDDS \_\_\_\_\_

COMMENTS: \_\_\_\_\_

REVEGETATION: RIPARIAN \_\_\_ UPSLOPE \_\_\_ BOTH \_\_\_\_\_ (Photo required for reveg.) DESCRIBE DENSITY: \_\_\_\_\_

PHOTO NO. PRINT: ROLL \_\_\_\_\_ FRAME \_\_\_\_\_ SLIDE: ROLL \_\_\_\_\_ FRAME \_\_\_\_\_

COMMENTS: \_\_\_\_\_

