DETAILED FISH PASSAGE ASSESSMENT SURVEY

County:	Route:	PM:	PAD ID:

Assessment Information

Date:	Time:	Surveying Agency:

Crew Members:

Crossing Facility Information

Type of Facility:

Number of Culverts:	**Number of Bays:**	**Number of Segments:**

Base Lining Material: □ Concrete □ Steel □ Plastic □ Other:_____

Side Wall Lining Material: □ Concrete □ Steel □ Plastic □ Other:_____

Corrugated Lining: □ No □ Unknown □ Yes (□ Annular □ Spiral Width_____" X Rise_____")

Existing Fish Passage Facilities Present: □ No □ Yes □Type of Facility:_____

Facility Description:

Facility Dimensions and Information

Segment (list from inlet to outlet)	**Mean Height** (ft)	**Mean Width** (ft)	**Length** (ft)	**Shape**	**Material**	**Orientation Change** (from upstream segment)
Inlet Apron						
Facility Inlet						
Facility Outlet						
Outlet Apron						
Facility Segments						

Weir Presence

Weirs Present: □ Yes □ No **Number of Weirs:** _____

Weir Material(s): □ Concrete □ Logs □ Boulders □ Wood □ Sheet □ Steel □Other:_____

Weir Description:

County:	Route:	PM:	PAD ID:

Facility Inlet Information

Inlet Configuration: □Projecting □ Headwall □ Wingwall (Flared or Parallel) □ Mitered □ Flared end

Inlet Apron: □ Present (Material:_____) □ Not Present □ Unknown

Inlet Alignment to Upstream Channel: □ < 30^0 □ 30-45^0 □ >45^0

Inlet Description:

Upstream Channel Conditions

Active Channel Margins: □ Well Defined □ Moderately Defined □ Poorly Defined □ No margins Visible

Mean Active Channel Width:_____ft.

Substrate Types Present (circle dominant type):

□ silt/clay □ sand(<0.08") □ gravel(0.08-2.5") □ cobble(2.5-10") □ boulder(>10") □ bedrock □ Unknown

Streamflow Conditions: □ Strong Flow □ Moderate Flow □ Low Flow □ Trickle □ Stagnant □ None

Man-Made Channel Lining: □ Present □ Not Present

If yes, circle all appropriate options for describing channel lining material, location, and extent.

Lining Material: Concrete Riprap Boulders/Cobble Bricks Wood Other _____

Lining Location: River Left River Right Bottom of Channel

Lining Extent (distance extending from crossing location):

River Left:	< 100 ft	100ft – 1,000 ft	>1,000 ft	NA	or_____ (ft)
River Right:	< 100 ft	100ft – 1,000 ft	>1,000 ft	NA	or_____ (ft)
Channel Bottom:	< 100 ft	100ft – 1,000 ft	>1,000 ft	NA	or_____ (ft)

Facility Outlet Information

Outlet Configuration: □Projecting □ Headwall □ Wingwall (Flared or Parallel) □ Mitered □ Flared end

□ At stream grade □ Freefall into pool □ Cascade over riprap □ Freefall to apron

Outlet Apron: □ Present (Material:_____) □ Not Present □ Unknown

Outlet Alignment to Downstream Channel: □ < 30^0 □ 30-45^0 □ >45^0

Outlet Description:

County:	Route:	PM:	PAD ID:

Downstream Channel Conditions

Active Channel Margins: □ Well Defined □ Moderately Defined □ Poorly Defined □ No margins Visible

Mean Active Channel Width:_____ft.

Substrate Types Present (circle dominant type):

□ silt/clay □ sand(<0.08") □ gravel (0.08-2.5") □ cobble(2.5-10") □ boulder(>10") □ bedrock □Unknown

Streamflow Conditions: □ Strong Flow □ Moderate Flow □ Low Flow □ Trickle □ Stagnant □ None

Man-Made Stream Channel Lining: □ Present □ Not Present

If man-made channel lining is present, circle all appropriate options for describing channel lining material, location, and extent.

Lining Material: Concrete Riprap Boulders/Cobble Bricks Wood Other _____

Lining Location: River Left River Right Bottom of Channel

Lining Extent (distance extending from crossing location):

River Left:	< 100 ft	100ft – 1,000 ft	>1,000 ft	NA	or_____ (ft)
River Right:	< 100 ft	100ft – 1,000 ft	>1,000 ft	NA	or_____ (ft)
Channel Bottom:	< 100 ft	100ft – 1,000 ft	>1,000 ft	NA	or_____ (ft)

Tailwater Control Point (Downstream of weirs if present**):**

□ No control point □ Pooltail out □ Bedrock control □ Large debris control □ Small debris control □ Unknown

Tailwater Control Point Dominant Substrate:

□ silt/clay □ sand (<0.08") □ gravel (0.08-2.5") □ cobble (2.5-10") □ boulder (>10") □ bedrock □ Unknown

Additional Crossing Facility Conditions

Does the crossing facility contain embedded substrate between its inlet and outlet?:

□ Yes □ No □ Unknown If YES, embedded: □ Fully (entire facility length) □ Partially □ Unknown

Mean Depth of Embedded Substrate: Facility Inlet:_____Facility Outlet:_____

Dominant Embedded Substrate:

□ Silt/Clay □ Sand(<0.08") □ Gravel(0.08-2.5") □ Cobble(2.5-10") □ Boulder(>10") □ Bedrock □Unknown

Is there a trash rack present at site?: □ Yes □ No □ Unknown

IF YES distance upstream from the inlet of the facility:_____(ft)

Trash Rack Condition: □ Clean □ Full of debris □ Partially full of debris □ Unknown

Flows at which trash rack is being bypassed: □ Low flows □ High flows □ All flows □Unknown

Stain or Rust Line (rust): □ Visible (Height _____ft.) □ Not Visible □ Unknown

County:	Route:	PM:	PAD ID:

Longitudinal Profile

(Along thalweg from first resting unit upstream of crossing facility to slope break downstream of tailwater control)

*List points from upstream to downstream of facility. **Include upstream and downstream extents of facility aprons, inlet and outlet of facility, facility segment change points, and plunge or cascade points causing a change in slope.**

POINT	STATION (0.1 ft)	BS (+)	HI (0.01 ft)	FS (-)	ELEVATION (0.01 ft)	Station Notes& Conditions
Upstream Resting Unit Tailwater Control						

Restrictions and Limitations:

County:	Route:	PM:	PAD ID:

Tailwater Control Cross Section

(Points begin at river left and move to river right)

* Minimum 9 Points required for TWC. Include active channel margins, thalweg, and changes in slope.

POINT	STATION (0.1 ft)	BS (+)	HI (0.01 ft)	FS (-)	ELEVATION (0.01 ft)	Vegetation and Substrate Conditions
River Left Bankfull Margin						

Restrictions and Limitations