

DETAILED FISH PASSAGE ASSESSMENT SURVEY

County:	Route:	PM:	PAD ID:
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Assessment Information

Date:	Time:	Surveying Agency:
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Crew Members:

Crossing Facility Information

Type of Facility:

Number of Culverts:	Number of Bays:	Number of Segments:
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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 <small>(list from inlet to outlet)</small>	Mean Height <small>(ft)</small>	Mean Width <small>(ft)</small>	Length <small>(ft)</small>	Shape	Material	Orientation Change <small>(from upstream segment)</small>
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:

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° 30-45° >45°

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° 30-45° >45°

Outlet Description:

Downstream Channel Conditions

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

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

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.

Station Notes
& Conditions

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

Restrictions and Limitations:

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.

Vegetation and
Substrate Conditions

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