Level A Culvert Assessment Field Form

Site ID 1 _____ Culvert Number 2 _____

Survey Crew 3 _____ Date 4 _____

Culvert Description

Culvert Material *5 ☐ PCC ☐ CPC ☐ CST ☐ SST ☐ CAL ☐ SPS ☐ SPA ☐ PVC ☐ TMB ☐ MRY ☐ OTH

Span *6 _____ Rise *7 _____

Shape *8 ☐ RND ☐ BOX ☐ ARCH ☐ SQSH ☐ ELL ☐ OTH

Water Depth in Culvert *9 _____

WS Drop *10 _____ WS Drop Location *11 _____

Apron *12 ☐ None ☐ US ☐ DS ☐ Both

Countersunk *13 ☐ Yes ☐ No Backwatered *14 ☐ Yes ☐ No

Gate *15 ☐ Yes ☐ No Fishway *16 ☐ Yes ☐ No

Rack *17 ☐ Yes ☐ No Rack Dimensions *18 _____

US Invert Elev *19 _____ DS Invert Elev *20 _____

Culvert Length: Yards *21 _____ Meters (yards x 0.9144) *22 _____

Slope *23 _____ Rise *24 _____ Run *25 _____

Road Fill Depth *26 _____

Channel Description

Bankfull Width *27 _____ Span/Bankful Width *28 _____

Tidal Influence *29 ☐ Yes ☐ No ☐ Unk

Plunge Pool Description (if present)

Plunge Pool Length *30 _____ Pool Max Depth *31 _____

Pool Scour Line Width #32 _____

Barrier Status

Barrier *33 ☐ Yes ☐ No ☐ Unk

Method *34 ☐ LA ☐ LB ☐ Fishway ☐ Other

% Passibility #35 ☐ 0 ☐ 33 ☐ 67 ☐ 100 ☐ Unk

Significant Reach *36 ☐ Yes ☐ No ☐ Unk

Photos ☐ Inlet ☐ Outlet

Comments: _____

Level A Form Instructions – All measurements should be in Meters

1. Database Unique Identifier
2. Culvert Number: if 1 culvert at site 1.1, if 2 then 1.2 or 2.2 etc.
3. Put scribe name first then the last name of all the others involved
4. Today's date
5. Construction Material of culvert: PCC = precast concrete, CPC = cast in place concrete, CST = corrugated steel, SST = structural steel plate, SPA = structural plate aluminum, PVC = plastic, TMB = timber, MRY = masonry, OTH = other
6. Width of culvert to nearest 0.1 meter
7. Height of culvert to nearest 0.1 meter
8. Cross-sectional shape of culvert: RND = round, BOX = square or rectangular, ARCH = bottomless, SQSH = squash (pipe arch), ELL = elliptical, OTH = other
9. Depth of water – do not include any fill in the culvert – water only
10. Water depth only, do not include sediment, to nearest 0.01 meter measured 20 cm into downstream end
11. Inlet; outlet; interior
12. Presence and location of apron(s) if any
13. Indicates whether culvert outlet invert is embedded at least 20% of culvert rise and streambed material is present throughout entire length of culvert
14. Indicates whether there is little to no visible flow throughout entire length of culvert, or that average velocity flow throughout entire length of culvert, or the average velocity through culvert is visibly slower that the average velocity in the adjacent channel
15. Indicates whether there is a gate associated with the culvert
16. Indicates whether there is a fishway associated with the culvert
17. Indicates whether there is a rack associated with the culvert
18. Dimensions of Rack – Width
19. Upstream Invert Elevation – from the bottom of the culvert
20. Downstream Invert Elevation – from the bottom of the culvert
21. Culvert Length in Yards – Handheld laser measures in yards – use HD setting
22. Culvert Length in meters – multiply yard measurement by 0.9144 to get meters
23. Slope of culvert reported as a percentage. Culvert Elevation Drop divided by Culvert Length in Meters - May be positive or negative
24. Downstream invert elevation minus Upstream invert elevation – this may be a negative number
25. Length of pipe – use number from #22
26. Estimated height of road fill to nearest 1 meter–Upstream invert elevation minus height of laser
27. Width of bank measured where water begins to overflow into floodplain
28. Width of culvert divided by the bank full width
29. Indicates whether tidal conditions affect culvert hydraulics at any time during fish passage flows
30. Length of plunge pool measured from culvert outlet to downstream control
31. Maximum depth of plunge pool
32. Maximum width of plunge pool measured at scour line
33. Barrier assessment – using flow chart is this culvert a barrier
34. Assessment method used to determine barrier status: LA – Level A; LB – Level B
35. Estimated percent passability – use table on back of flow chart
36. Indicates whether there is 200 linear meters of potential fish habitat upstream and downstream of culvert