

SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

STREAM, line
Stream centre line dynamic line segments
STREAM REFERENCE
 * StreamName
 * LocalName
 * Organization
 * WtrshdCde (Watershed Code)
 * TributaryCde (Tributary Code)
 * ILP (Interim Locator Point (Tributary Code))
 * Date
 * Time
 * Crew
 * Weather, MENU
 * Air Temp (degrees centigrade)
 * Water Temp (degrees celsius)
 * Stage, MENU
 * Comments
 * PhotoNum (Roll and print number of photograph)
 * Caption

SEGMENT CLASS
 * Seg_Number (Unique Identification number for segment)
 * Primary, MENU (State of stream section)
 * Secondary, MENU (State of stream section)
 * Hydraulic, MENU (Dominant hydraulic type)
 * Comt_Class (Comments for Segment)
 * Caption

SEGMENT CHARACTER
 * Gradient (Gradient to last point for chain survey)
 * Crown_Closure, MENU
 * Spawning_Habitat, MENU (Good spawning habitat)
 * Livestock_access, MENU (Stream segment accessible to livestock)
 * Bars, MENU
 * Comt_SChar (Comments for Segment)
 * Caption

SUBSTRATE
 * Sub_Organic
 * Sub_Fines
 * Sub_Gravel
 * Sub_Cobble
 * Sub_Bldr
 * Sub_BedRk
 * Compaction, MENU (Level of substrate compaction)
 * Comt_Sub (Comment for Substrates)
 * Caption

CHANNEL
 * Width_W (wetted width)
 * Width_BF (Bank full width)
 * Width_LFP (left flood plain width)
 * Width_RFP (right flood plain width)
 * Depth_W (Wetted depth)
 * Depth_BF (Bankfull depth)
 * Comt_Chan (Comment for Channel)
 * Caption

INSTREAM COVER
 * Total_Cover (Percentage of Segment With Cover)
 * B (percent boulder)
 * DP (percent deep pools)
 * IV (percent instream vegetation)
 * LWD (percent)
 * OV (percent overstream vegetation)
 * SWD (small woody debris)
 * UC (percent undercut bank)
 * LWD_Count (Number of LWD in Segment)
 * Spanlog_Count (Number of LWD in Segment)
 * DP_Count (Number of Deep Pools in Segment)
 * Comt_Cov (Comment for Channel)
 * Caption

LEFT BANK RIPARIAN
 * L_RipClass, MENU (Riparian Class)
 * L_Qualifier, MENU (Riparian Class Qualifier)
 * L_BandWidth
 * L_BankSlope
 * L_Stage, MENU (Structural Stage)
 * L_Shrubs, MENU (Density of shrubs)
 * L_Snag, MENU (Presence of Snags)
 * L_Veteran, MENU (Veteran Trees)
 * L_BkStability, MENU (Bank Stability)
 * L_Bank_Material, MENU
 * L_Top_Bank, MENU (Estimated top of bank)
 * L_Comment (Comment Left bank riparian)
 * Caption

RIGHT BANK RIPARIAN
 * R_RipClass, MENU (Riparian Class)
 * R_Qualifier, MENU (Riparian Class Qualifier)
 * R_BandWidth
 * R_BankSlope
 * R_Stage, MENU (Structural Stage)
 * R_Shrubs, MENU (Density of shrubs)
 * R_Snag, MENU (Presence of Snags)
 * R_Veteran, MENU (Veteran Trees)
 * R_BkStability, MENU (Bank Stability)
 * R_Bank_Material, MENU
 * R_Top_Bank, MENU (Estimated top of bank)
 * R_Comment (Comment Right bank riparian)
 * Caption

FLORA & FAUNA
 * Cmmt Flora (Flora Comment)
 * Cmmt Fauna (Fauna Comment)

POINT, point (Nested Point type)
 * Type_Point, MENU (Point Type Code)
 * Point_number (unique point identification number)
 * Distance (Distance to last point for chain survey)
 * Bearing (Compass bearing to last point)
 * Gradient (Gradient to last point for chain survey)
 * Elevation (Altimeter elevation in meters)
 * Comments
 * PhotoNum (Roll and print number of photographs)

CROSS-SECTION, point
CROSS-SECTION POINT
 * Point_number (unique point identification)
 * Velocity (average velocity feet per second)
 * Flow (cubic feet per second)
 * Flow_method, MENU
 * Comments (general comments)
 * PhotoNum (Roll and print number)
 * Caption

SUBSTRATE
 * Sub_Organic
 * Sub_Fines
 * Sub_Gravel
 * Sub_Cobble
 * Sub_Bldr
 * Sub_BedRk
 * Compaction, MENU (Level of substrate compaction)
 * CommtSub
 * Caption

CHANNEL
 * Width_W (wetted width)
 * Width_BF (Bank full width)
 * Width_LFP (left flood plain width)
 * Width_RFP (right flood plain width)
 * Depth_W (Wetted depth)
 * Depth_BF (Bankfull depth)
 * Depth_FP (Flood plain depth)
 * Comt_Chan (Comment for Channel)
 * Caption

DETAILED CHANNEL (Detailed channel cross-section)
 * SLC_Depth
 * CL1_Width (Width at CL1)
 * CL1_Depth (Depth at CL1)
 * CL2_Width (Width at CL2)
 * CL2_Depth (Depth at CL2)
 * CL3_Width (Width at CL3)
 * CL3_Depth (Depth at CL3)
 * WETL_Width
 * CR1_Width (Width at CR1)
 * CR1_Depth (Depth at CR1)
 * CR2_Width (Width at CR2)
 * CR2_Depth (Depth at CR2)
 * CR3_Width (Width at CR3)
 * CR3_Depth (Depth at CR3)
 * WETR_Width
 * BF_Width (Bank full width)
 * BF_Elevation (Bank full Elevation)
 * LFP_Width (left flood plain width)
 * RFP_Width (right flood plain width)
 * FPElevation (Flood plain elevation)
 * Comt_EChan (Extra Channel comments)
 * Caption

EXTRA LEFT BANK
 * LX_BandWidth (left extra band width)
 * LX_Slope (degrees)
 * LX_Top_Bank, MENU (Estimated top of bank)
 * LX1_BandWidth (left extra band width)
 * LX1_Slope (degrees)
 * LX1_Top_Bank, MENU (Estimated top of bank)
 * LX_Comment (Comment left extra band)
 * Caption

LEFT RIPARIAN BAND1
 * L_Bearing (Compass bearing from last point)
 * L_RipClass, MENU (Riparian Class)
 * L_Qualifier, MENU (Riparian Class Qualifier)
 * L_BandWidth
 * L_BankSlope
 * L_Top_Bank, MENU (Estimated top of bank)
 * L_Stage, MENU (Structural Stage)
 * L_Shrubs, MENU (Density of shrubs)
 * L_Snag, MENU (Presence of Snags)
 * L_Veteran, MENU (Veteran trees)
 * L_BkStability, MENU (Bank Stability)
 * L_Bank_Material, MENU
 * L_Comment (Comments Left bank riparian)
 * Caption

LEFT RIPARIAN BAND2
 * L2_RipClass, MENU (Riparian Class)
 * L2_Qualifier, MENU (Riparian Class Qualifier)
 * L2_BandWidth
 * L2_BankSlope
 * L2_Top_Bank, MENU (Estimated top of bank)
 * L2_Stage, MENU (Structural Stage)
 * L2_Shrubs, MENU (Density of shrubs)
 * L2_Snag, MENU (Presence of Snags)
 * L2_Veteran, MENU (Veteran trees)
 * L2_BkStability, MENU (Bank Stability)
 * L2_Comment (Comments Left bank riparian)
 * Caption

LEFT RIPARIAN BAND3
 * L3_RipClass, MENU (Riparian Class)
 * L3_Qualifier, MENU (Riparian Class Qualifier)
 * L3_BandWidth
 * L3_BankSlope
 * L3_Top_Bank, MENU (Estimated top of bank)
 * L3_Stage, MENU (Structural Stage)
 * L3_Shrubs, MENU (Density of shrubs)
 * L3_Snag, MENU (Presence of Snags)
 * L3_Veteran, MENU (Veteran trees)
 * L3_BkStability, MENU (Bank Stability)
 * L3_Comment (Comments Left bank riparian)
 * Caption

LEFT RIPARIAN BAND4
 * L4_RipClass, MENU (Riparian Class)
 * L4_Qualifier, MENU (Riparian Class Qualifier)
 * L4_BandWidth
 * L4_BankSlope
 * L4_Top_Bank, MENU (Estimated top of bank)
 * L4_Stage, MENU (Structural Stage)
 * L4_Shrubs, MENU (Density of shrubs)
 * L4_Snag, MENU (Presence of Snags)
 * L4_Veteran, MENU (Veteran trees)
 * L4_BkStability, MENU (Bank Stability)
 * L4_Comment (Comments Left bank riparian)
 * Caption

EXTRA RIGHT BAND
 * RX_BandWidth (right extra band width)
 * RX_Slope
 * RX_Top_Bank, MENU (Estimated top of bank)
 * RX1_BandWidth (right extra band width)
 * RX1_Slope (degrees)
 * RX1_Top_Bank, MENU (Estimated top of bank)
 * RX_Comment (Comment right extra band)
 * Caption

RIGHT RIPARIAN BAND1
 * R_Bearing (Compass bearing from last point)
 * R_RipClass, MENU (Riparian Class)
 * R_Qualifier, MENU (Riparian Class Qualifier)
 * R_BandWidth
 * R_BankSlope
 * R_Top_Bank, MENU (Estimated top of bank)
 * R_Stage, MENU (Structural Stage)
 * R_Shrubs, MENU (Density of shrubs)
 * R_Snag, MENU (Presence of Snags)
 * R_Veteran, MENU (Veteran trees)
 * R_BkStability, MENU (Bank Stability)
 * R_Bank_Material, MENU
 * R_Comment (Comment Right bank riparian)
 * Caption

RIGHT RIPARIAN BAND2
 * R2_RipClass, MENU (Riparian Class)
 * R2_Qualifier, MENU (Riparian Class Qualifier)
 * R2_BandWidth
 * R2_BankSlope
 * R2_Top_Bank, MENU (Estimated top of bank)
 * R2_Stage, MENU (Structural Stage)
 * R2_Shrubs, MENU (Density of shrubs)
 * R2_Snag, MENU (Presence of Snags)
 * R2_Veteran, MENU (Veteran trees)
 * R2_BkStability, MENU (Bank Stability)
 * R2_Comment (Comment Right bank riparian)
 * Caption

RIGHT RIPARIAN BAND3
 * R3_RipClass, MENU (Riparian Class)
 * R3_Qualifier (Riparian Class Qualifier)
 * R3_BandWidth
 * R3_BankSlope
 * R3_Top_Bank, MENU (Estimated top of bank)
 * R3_Stage, MENU (Structural Stage)
 * R3_Shrubs, MENU (Density of shrubs)
 * R3_Snag, MENU (Presence of Snags)
 * R3_Veteran, MENU (Veteran trees)
 * R3_BkStability, MENU (Bank Stability)
 * R3_Comment (Comment Right bank riparian)
 * Caption

cont'd.

SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

CROSS-SECTION, point cont'd.
RIGHT RIPARIAN BAND4
 * R4_RipClass, MENU (Riparian Class)
 * R4_Qualifier, MENU (Riparian Class Qualifier)
 * R4_BandWidth
 * R4_BankSlope
 * R4_Top_Bank, MENU (Estimated top of bank)
 * R4_Stage, MENU (Structural Stage)
 * R4_Shrubs, MENU (Density of shrubs)
 * R4_Snag, MENU (Presence of Snags)
 * R4_Veteran, MENU (Veteran trees)
 * R4_BkStability, MENU (Bank Stability)
 * R4_Comment (Comment Right bank riparian)
 * Caption

FLORA & FAUNA
 * CmmntFlora (Flora Comment)
 * CmmntFauna (Fauna Comment)

CULVERT, point
 * Point_number (unique point identification)
 * Type_Culvert (Type of culvert)
 * Owner, MENU
 * Condition, MENU (condition of culvert)
 * Barrier, MENU (Obstructs fish passage)
 * Material, MENU (Culvert material)
 * Substrate, MENU (substrate within culvert)
 * Form, MENU (Shape of culvert)
 * Length (Feature length)
 * Width (Width of Feature)
 * Height (Height of culvert above streambed)
 * Depth (Depth of plunge pool)
 * Diameter (Diameter of culvert)
 * ScreenSize
 * StormOutlets
 * Headwall (Does a headwall exist)
 * Apron (Does an apron exist)
 * Baffles (Do baffles exist)
 * Comments
 * PhotoNum (Roll and print number of photograph)

OBSTRUCTION, point
 * Point_number (unique point identification)
 * Type_Obstruction, MENU (Code for feature)
 * Bank, MENU
 * Barrier, MENU (Obstructs fish passage)
 * Length (Feature length)
 * Width (Width of Feature)
 * Depth (Depth of feature)
 * Diameter (Diameter of feature)
 * Height (Height of feature)
 * Slope
 * ScreenSize
 * PhotoNum (Roll and print number of photograph)
 * Comments

MODIFICATION, point
 * Point_number (unique point identification)
 * Type_Modification, MENU (Code for feature)
 * Bank, MENU
 * Type_Material, MENU
 * Length (Feature length)
 * Width (Width of Feature)
 * Height (Height of feature)
 * PhotoNum (Roll and print number of photograph)
 * Comments

DISCHARGE, point
 * Point_number (unique point identification)
 * Type_Discharge, MENU (Code for feature)
 * Bank, MENU
 * Material, MENU (Culvert material)
 * Headwall, MENU (Does a headwall exist)
 * Length (Feature length)
 * Width (Width of Feature)
 * Diameter (Diameter of feature)
 * Height (Height of feature)
 * Temperature (Water temperature)
 * PhotoNum (Roll and print number of photograph)
 * Comments

EROSION, point
 * Point_number (unique point identification)
 * Source_Erosion, MENU (code for feature)
 * Bank, MENU
 * Severity, MENU
 * Exposure, MENU
 * Length (Feature length)
 * Width (Width of Feature)
 * Height (Height of feature)
 * Slope
 * PhotoNum (roll and print no. of photos)
 * Comments

FISH HABITAT, point
 * Point_number (unique point identification)
 * Type_Habitat, MENU (Code for feature)
 * Bank, MENU
 * Length (Feature length)
 * Width (Width of Feature)
 * Depth (Depth of feature)
 * PhotoNum (Roll and print number of photograph)
 * Comments

FISH SAMPLE, point
 * Point_number (unique point identification)
 * TrapNo (Minnow Trap number)
 * DateIn (Date Trap was set)
 * DateOut (Date Trap removed)
 * Method (Method of detection)
 * Species, MENU (Code for fish species)
 * Count_total (Number of fish sampled)
 * Redd, MENU (Presence of redd)
 * PhotoNum (Roll and print number of photograph)
 * Comments
 * Caption

SPECIES 1
 * Sp_1, MENU (Code for fish species)
 * Count_1 (Number of fish sampled)
 * Age_1, MENU (Life history stage of fish)
 * ForkLth_1
 * Caption

SPECIES 2
 * Sp_2, MENU (Code for fish species)
 * Count_2 (Number of fish sampled)
 * Age_2, MENU (Life history stage of fish)
 * ForkLth_2
 * Caption

SPECIES 3
 * Sp_3, MENU (Code for fish species)
 * Count_3 (Number of fish sampled)
 * Age_3, MENU (Life history stage of fish)
 * ForkLth_3
 * Caption

SPECIES 4
 * Sp_4, MENU (Code for fish species)
 * Count_4 (Number of fish sampled)
 * Age_4, MENU (Life history stage of fish)
 * ForkLth_4
 * Caption

SPECIES 5
 * Sp_5, MENU (Code for fish species)
 * Count_5 (Number of fish sampled)
 * Age_5, MENU (Life history stage of fish)
 * ForkLth_5
 * Caption

SPECIES 6
 * Sp_6, MENU (Code for fish species)
 * Count_6 (Number of fish sampled)
 * Age_6, MENU (Life history stage of fish)
 * ForkLth_6
 * Caption

ENHANCEMENT, point
 * Point_number (unique point identification)
 * Type_Enhancement, MENU (Code for feature)
 * Bank, MENU
 * Status, MENU (Potential or Existing Enhancement)
 * Length (Feature length)
 * Width (Width of Feature)
 * Height (Height of feature)
 * Diameter (Diameter of feature)
 * Comments
 * PhotoNum (Roll and print number of photograph)

WILDLIFE, point
 * Point_number (unique point identification)
 * Type_Evidence, MENU
 * Class_Wildlife, MENU
 * Bank, MENU
 * Species_Wildlife
 * CmmntFauna (Fauna Comment)
 * PhotoNum (roll and print no. of photos)

TREE WILDLIFE, point
 * Point_number (unique point identification)
 * Type_Tree, MENU
 * Veteran_tree, MENU (Point Locatino of a Veteran Tree)
 * DBH (Diameter Breast Height)
 * Mast_tree, MENU
 * Bank, MENU
 * Nesting, MENU
 * Slate, MENU (State of Wildlife Tree)
 * Woodpkr_use, MENU
 * Denning, MENU
 * Perches, MENU
 * Cavities, MENU
 * CmmntFlora (Flora Comment)
 * PhotoNum (Roll and print number)

WATERBODY, point
Location of an adjacent waterbody
 * Point_number (unique point identification)
 * Type_Waterbody, MENU (Code for feature)
 * Bank, MENU
 * Length (Waterbody length)
 * Width (Bankfull Width)
 * Depth (Bankfull Depth)
 * Temperature (Water temperature)
 * PhotoNum (Roll and print number of photograph)
 * Comments

WETLAND, line
 * Point_number (unique point identification)
 * Length (Feature length)
 * Width (Width of Feature)
 * Distance (Distance to last point for chain survey)
 * Bearing (Compass bearing to last point)
 * Comments

WATER_SAMPLE, point
 * Point_number (unique point identification)
 * TDS (Total Dissolved Solids)
 * pH
 * Temp (Degrees Centigrade)
 * DO (Dissolved Oxygen)
 * Turbidity, MENU
 * Comments

PHOTO_LOCATION, point
 * Point_number (unique point identification)
 * Photo_Roll & Frame
 * Photo_Direction, MENU
 * Photo_Bearing
 * Photo_Comments

SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

STREAM, line
Stream centre line dynamic line segments

STREAM REFERENCE
 * StreamName
 * Organization
 * WtrshedCde (Watershed Code)
 * TributaryCde (Tributary Code)
 * ILP (Interim Locator Point (Tributary Code))
 * Date
 * Time
 * Crew
 1 Weather_MENU
 * Air Temp (degrees centigrade)
 * Water Temp (degrees celsius)
 2 Stage_MENU
 * Comments
 * PhotoNum (Roll and print number of photograph)
 * Caption

SEGMENT CLASS
 * Seg_Number (Unique Identification number for segment)
 3 Primary_MENU (State of stream section)
 4 Secondary_MENU (State of stream section)
 5 Hydraulic_MENU (Dominant hydraulic type)
 * Comt_Class (Comments for Segment)
 * Caption

SEGMENT CHARACTER
 * Gradient (Gradient to last point for chain survey)
 6 Crown_Closure_MENU
 7 Spawning_Habitat_MENU (Good spawning habitat)
 8 Livestock_access_MENU (Stream segment accessible to livestock)
 9 Bars_MENU
 * Comt_SChar (Comments for Segment)
 * Caption

SUBSTRATE
 * Sub_Organic
 * Sub_Fines
 * Sub_Gravel
 * Sub_Cobble
 * Sub_Blder
 * Sub_BedRk
 10 Compaction_MENU (Level of substrate compaction)
 * Comt_Sub (Comment for Substrates)
 * Caption

CHANNEL
 * Width_W (wetted width)
 * Width_BF (Bank full width)
 * Width_LFP (left flood plain width)
 * Width_RFP (right flood plain width)
 * Depth_W (Wetted depth)
 * Depth_BF (Bankfull depth)
 * Comt_Chan (Comment for Channel)
 * Caption

INSTREAM COVER
 * Total_Cover (Percentage of Segment With Cover)
 * B (percent boulder)
 * DP (percent deep pools)
 * IV (percent instream vegetation)
 * LWD (percent)
 * OV (percent overstream vegetation)
 * SWD (small woody debris)
 * UC (percent undercut bank)
 * LWD_Count (Number of LWD in Segment)
 * Spanlog_Count (Number of LWD in Segment)
 * DP_Count (Number of Deep Pools in Segment)
 * Comt_Cov (Comment for Channel)
 * Caption

LEFT BANK RIPARIAN
 11 L_RipClass_MENU (Riparian Class)
 12 L_Qualifier_MENU (Riparian Class Qualifier)
 * L_BandWidth
 * L_BankSlope
 13 L_Stage_MENU (Structural Stage)
 14 L_Shrebs_MENU (Density of shrubs)
 15 L_Snag_MENU (Presence of Snags)
 16 L_Veteran_MENU (Veteran Trees)
 17 L_BkStblty_MENU (Bank Stability)
 18 L_Bank_Material_MENU
 19 L_Top_Bank_MENU (Estimated top of bank)
 * L_Comment (Comment Left bank riparian)
 * Caption

RIGHT BANK RIPARIAN
 20 R_RipClass_MENU (Riparian Class)
 21 R_Qualifier_MENU (Riparian Class Qualifier)
 * R_BandWidth
 * R_BankSlope
 22 R_Stage_MENU (Structural Stage)
 23 R_Shrebs_MENU (Density of shrubs)
 24 R_Snag_MENU (Presence of Snags)
 25 R_Veteran_MENU (Veteran Trees)
 26 R_BkStblty_MENU (Bank Stability)
 27 R_Bank_Material_MENU
 28 R_Top_Bank_MENU (Estimated top of bank)
 * R_Comment (Comment Right bank riparian)
 * Caption

FLORA & FAUNA
 * Cmmnt Flora (Flora Comment)
 * Cmmnt Fauna (Fauna Comment)

1. Weather_MENU
 * Light Rain
 * Heavy Rain
 * Snow/Sleet
 * Overcast
 * Clear
 * Partly Cloudy
 * Other

2. Stage_MENU
 * Dry
 * Low
 * Moderate
 * High
 * Flood
 * Other

3. Primary_MENU (State of Stream Section)
 * Channelized
 * Culvert
 * Ditch
 * Modified
 * Natural
 * Other

4. Secondary_MENU (State of Stream Section)
 * Beaver Pond
 * Ephemeral
 * Flumed
 * Intermittent
 * Side channel
 * Wetland
 * Braided
 * Non-channelized
 * Other

5. Hydraulic_MENU (Dominant Hydraulic Type)
 * Beaver Pond
 * Cascade
 * Cascade/Pool
 * Falls
 * Pool
 * Run
 * Rifle
 * Rifle/Pool
 * Slough
 * Standing
 * Wetland
 * Other

6. Crown_Closure_MENU
 * 0
 * 1-20%
 * 21-40%
 * 41-70%
 * 71-90%
 * >90%

7. Spawning Habitat_MENU (Good Spawning Habitat)
 * Anadromous
 * Resident
 * Unknown
 * Potential

8. Livestock_access_MENU (Stream Segment Accessible to Livestock)
 * Yes
 * No

9. Bars_MENU
 * None
 * Side
 * Diagonal
 * Mid-channel
 * Spanning
 * Braided

10. Compaction_MENU (Level of Substrate Compaction)
 * Low
 * Medium
 * High

11. L_RipClass_MENU (Riparian Class)
 * Row Crops
 * Broadleaf forest
 * Bryophytes
 * Coniferous forest
 * Planted Tree Farm
 * Disturbed wetland
 * Dug out pond
 * Exposed soil
 * Flood plain
 * Herbs/grasses
 * High Impervious
 * Medium Impervious
 * Low Impervious
 * Mixed forest
 * Natural wetland
 * Rock
 * Shrubs

12. L_Qualifier_MENU (Riparian Class Qualifier)
 * Agriculture
 * Natural
 * Urban_Residential
 * Recreation
 * Disturbed
 * Unknown

13. L_Stage_MENU (Structural Stage)
 * Low Shrubs <2m
 * Tall Shrubs 2-10m
 * Sapling >10m
 * Young Forest
 * Mature Forest
 * Old Forest

14. L_Shrebs_MENU (Density of Shrubs)
 * <5%
 * 5-33%
 * 34-66%
 * 67-100%

15. L_Snag_MENU (Presence of Snags)
 * No
 * <5
 * >=5

16. L_Veteran_MENU (Veteran Trees)
 * No
 * <5
 * >=5

17. L_BkStblty_MENU (Bank Stability)
 * High
 * Medium
 * Low

18. L_Bank_Material_MENU
 * Concrete
 * Gabions
 * Pilings
 * Stonework
 * RipRap
 * Retain Wall/Bank Sib
 * Sandbags
 * Wood
 * Bark_Mulch
 * Asphalt
 * Dyke
 * Fines
 * Gravel
 * Cobble
 * Boulder
 * Bed_Rock
 * Other

19. L_Top_Bank_MENU (Estimated Top of Bank)
 * Yes
 * No

20. R_RipClass_MENU (Riparian Class)
 * Row Crops
 * Broadleaf forest
 * Bryophytes
 * Coniferous forest
 * Planted Tree Farm
 * Disturbed wetland
 * Dug out pond
 * Exposed soil
 * Flood plain
 * Herbs/grasses
 * High Impervious
 * Medium Impervious
 * Low Impervious
 * Mixed Forest
 * Natural Wetland
 * Rock
 * Shrubs

21. R_Qualifier_MENU (Riparian Class Qualifier)
 * Agriculture
 * Natural
 * Urban_Residential
 * Recreation
 * Disturbed
 * Unknown

22. R_Stage_MENU (Structural Stage)
 * Low Shrubs <2m
 * Tall Shrubs 2-10m
 * Sapling >10m
 * Young Forest
 * Mature Forest
 * Old Forest

23. R_Shrebs_MENU (Density of Shrubs)
 * <5%
 * 5-33%
 * 34-66%
 * 67-100%

24. R_Snag_MENU (Presence of Snags)
 * No
 * <5
 * >=5

25. R_Veteran_MENU (Veteran Trees)
 * No
 * <5
 * >=5

26. R_BkStblty_MENU (Bank Stability)
 * High
 * Medium
 * Low

27. R_Bank_Material_MENU
 * Concrete
 * Gabions
 * Pilings
 * Stonework
 * RipRap
 * Retain Wall/Bank Sib
 * Sandbags
 * Wood
 * Bark_Mulch
 * Asphalt
 * Dyke
 * Fines
 * Gravel
 * Cobble
 * Boulder
 * Bed_Rock
 * Other

28. R_Top_Bank_MENU (Estimated Top of Bank)
 * Yes
 * No

SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

POINT, point (Nested Point type)

- * 29 Type Point, MENU (Point Type Code)
- * Point_number (unique point identification number)
- * Distance (Distance to last point for chain survey)
- * Bearing (Compass bearing to last point)
- * Gradient (Gradient to last point for chain survey)
- * Elevation (Altimeter elevation in meters)
- * Comments
- * PhotoNum (Roll and print number of photographs)

29. Type_Point, MENU (Point Type Code)

- * Location Point
- * Start Point
- * End Point
- * Reference Point
- * Bench Mark
- * Monument
- * Map Tie Point
- * Reach Break
- * Riparian Band
- * Segment Break
- * Elevation
- * Left Top of Bank
- * Right Top of Bank

CROSS-SECTION, point

- * CROSS-SECTION POINT
- * Point_number (unique point identification)
- * Velocity (average velocity feet per second)
- * Flow (cubic feet per second)
- * 30 Flow_method, MENU
- * Comments (general comments)
- * PhotoNum (Roll and print number)
- * Caption

SUBSTRATE

- * Sub_Organic
- * Sub_Fines
- * Sub_Gravel
- * Sub_Cobble
- * Sub_Blder
- * Sub_BedRk
- * 31 Compaction, MENU (Level of substrate compaction)
- * CommentSub
- * Caption

CHANNEL

- * Width_W (wetted width)
- * Width_BF (Bank full width)
- * Width_LFP (left flood plain width)
- * Width_RFP (right flood plain width)
- * Depth_W (Wetted depth)
- * Depth_BF (Bankfull depth)
- * Depth_FP (Flood plain depth)
- * Comt_Chan (Comment for Channel)
- * Caption

DETAILED CHANNEL (Detailed channel cross-sections)

- * SCL_Depth
- * CL1_Width (Width at CL1)
- * CL1_Depth (Depth at CL1)
- * CL2_Width (Width at CL2)
- * CL2_Depth (Depth at CL2)
- * CL3_Width (Width at CL3)
- * CL3_Depth (Depth at CL3)
- * WETL_Width
- * CR1_Width (Width at CR1)
- * CR1_Depth (Depth at CR1)
- * CR2_Width (Width at CR2)
- * CR2_Depth (Depth at CR2)
- * CR3_Width (Width at CR3)
- * CR3_Depth (Depth at CR3)
- * WETR_Width
- * BF_Width (Bank full width)
- * BF_Elevation (Bank full Elevation)
- * LFP_Width (left flood plain width)
- * RFP_Width (right flood plain width)
- * FP_Elevation (Flood plain elevation)
- * Comt_EChan (Extra Channel comments)
- * Caption

EXTRA LEFT BAND

- * LX_BandWidth (left extra band width)
- * LX_Slope (degrees)
- * 32 LX_Top_Bank, MENU (Estimated top of bank)
- * LX1_BandWidth (left extra band width)
- * LX1_Slope (degrees)
- * 33 LX1_Top_Bank, MENU (Estimated top of bank)
- * LX_Comment (Comment left extra band)
- * Caption

LEFT RIPARIAN BAND1

- * L_Bearing (Compass bearing from last point)
- * 34 L_RipClass, MENU (Riparian Class)
- * 35 L_Qualifier, MENU (Riparian Class Qualifier)
- * L_BandWidth
- * L_BankSlope
- * 36 L_Top_Bank, MENU (Estimated top of bank)
- * L_Stage, MENU (Structural Stage)
- * 38 L_Shrebs, MENU (Density of shrubs)
- * 39 L_Snag, MENU (Presence of Snags)
- * 40 L_Veteran, MENU (Veteran trees)
- * 41 L_BkStability, MENU (Bank Stability)
- * 42 L_Bank_Material, MENU
- * L_Comment (Comments Left bank riparian)
- * Caption

LEFT RIPARIAN BAND2

- * 43 L2_RipClass, MENU (Riparian Class)
- * 44 L2_Qualifier, MENU (Riparian Class Qualifier)
- * L2_BandWidth
- * L2_BankSlope
- * 45 L2_Top_Bank, MENU (Estimated top of bank)
- * L2_Stage, MENU (Structural Stage)
- * 47 L2_Shrebs, MENU (Density of shrubs)
- * 48 L2_Snag, MENU (Presence of Snags)
- * 49 L2_Veteran, MENU (Veteran trees)
- * 50 L2_BkStability, MENU (Bank Stability)
- * L2_Comment (Comments Left bank riparian)
- * Caption

LEFT RIPARIAN BAND3

- * 51 L3_RipClass, MENU (Riparian Class)
- * 52 L3_Qualifier, MENU (Riparian Class Qualifier)
- * L3_BandWidth
- * L3_BankSlope
- * 53 L3_Top_Bank, MENU (Estimated top of bank)
- * L3_Stage, MENU (Structural Stage)
- * 55 L3_Shrebs, MENU (Density of shrubs)
- * 56 L3_Snag, MENU (Presence of Snags)
- * 57 L3_Veteran, MENU (Veteran trees)
- * 58 L3_BkStability, MENU (Bank Stability)
- * L3_Comment (Comments Left bank riparian)
- * Caption

30. Flow_method, MENU

- * Float
- * Hydraulic Head
- * Flow meter
- * Other

31. Compaction, MENU (Level of Substrate Compaction)

- * Low
- * Medium
- * High

32. LX_Top_Bank, MENU (Estimated top of bank)

- * Yes
- * No

33. LX1_Top_Bank, MENU

- * Yes
- * No

34. L_RipClass, MENU (Riparian Class)

- * Row Crops
- * Broadleaf Forest
- * Bryophytes
- * Coniferous Forest
- * Planted Tree Farm
- * Disturbed Wetland
- * Dug Out Pond
- * Exposed Soil
- * Flood Plain
- * Herbs/Grasses
- * High Impervious
- * Medium Impervious
- * Low Impervious
- * Mixed Forest
- * Natural Wetland
- * Rock
- * Shrubs

35. L_Qualifier, MENU (Riparian Class Qualifier)

- * Agriculture
- * Natural
- * Urban_Residential
- * Recreation
- * Disturbed
- * Unknown

36. L_Top_Bank, MENU (Estimated Top of Bank)

- * Yes
- * No

37. L_Stage, MENU (Structural Stage)

- * Low Shrubs <2m
- * Tall Shrubs 2-10m
- * Sapling > 10m
- * Young Forest
- * Mature Forest
- * Old Forest

38. L_Shrebs, MENU (Density of Shrubs)

- * <5%
- * 5-33%
- * 34-66%
- * 67-100%

39. L_Snag, MENU (Presence of Snags)

- * No
- * <5
- * >=5

40. L_Veteran, MENU (Veteran Trees)

- * No
- * <5
- * >=5

41. L_BkStability, MENU (Bank Stability)

- * High
- * Medium
- * Low

42. L_Bank_Material, MENU

- * Concrete
- * Gabions
- * Piling
- * Stonework
- * RipRap
- * Retain Wall/Bank Sib
- * Sandbags
- * Wood
- * Bark_Mulch
- * Asphalt
- * Dyke
- * Fines
- * Gravel
- * Cobble
- * Boulder
- * Bed_Rock
- * Other

43. L2_RipClass, MENU (Riparian Class)

- * Row Crops
- * Broadleaf Forest
- * Bryophytes
- * Coniferous Forest
- * Planted Tree Farm
- * Disturbed Wetland
- * Dug Out Pond
- * Exposed Soil
- * Flood Plain
- * Herbs/Grasses
- * High Impervious
- * Medium Impervious
- * Low Impervious
- * Mixed Forest
- * Natural Wetland
- * Rock
- * Shrubs

44. L2_Qualifier, MENU (Riparian Class Qualifier)

- * Agriculture
- * Natural
- * Urban_Residential
- * Recreation
- * Disturbed
- * Unknown

45. L2_Top_Bank, MENU (Estimated Top of Bank)

- * Yes
- * No

46. L2_Stage, MENU (Structural Stage)

- * Low Shrubs <2m
- * Tall Shrubs 2-10m
- * Sapling > 10m
- * Young Forest
- * Mature Forest
- * Old Forest

47. L2_Shrebs, MENU (Density of Shrubs)

- * <5%
- * 5-33%
- * 34-66%
- * 67-100%

48. L2_Snag, MENU (Presence of Snags)

- * No
- * <5
- * >=5

49. L2_Veteran, MENU (Veteran Trees)

- * No
- * <5
- * >=5

50. L2_BkStability, MENU (Bank Stability)

- * High
- * Medium
- * Low

51. L3_RipClass, MENU (Riparian Class)

- * Row Crops
- * Broadleaf Forest
- * Bryophytes
- * Coniferous Forest
- * Planted Tree Farm
- * Disturbed Wetland
- * Dug Out Pond
- * Exposed Soil
- * Flood Plain
- * Herbs/Grasses
- * High Impervious
- * Medium Impervious
- * Low Impervious
- * Mixed Forest
- * Natural Wetland
- * Rock
- * Shrubs

52. L3_Qualifier, MENU (Riparian Class Qualifier)

- * Agriculture
- * Natural
- * Urban_Residential
- * Recreation
- * Disturbed
- * Unknown

53. L3_Top_Bank, MENU (Estimated Top of Bank)

- * Yes
- * No

54. L3_Stage, MENU (Structural Stage)

- * Low Shrubs <2m
- * Tall Shrubs 2-10m
- * Sapling > 10m
- * Young Forest
- * Mature Forest
- * Old Forest

55. L3_Shrebs, MENU (Density of Shrubs)

- * <5%
- * 5-33%
- * 34-66%
- * 67-100%

56. L3_Snag, MENU (Presence of Snags)

- * No
- * <5
- * >=5

57. L3_Veteran, MENU (Veteran Trees)

- * No
- * <5
- * >=5

58. L3_BkStability, MENU (Bank Stability)

- * High
- * Medium
- * Low

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<p>LEFT RIPARIAN BAND4</p> <p>59 L4_RipClass, MENU (Riparian Class)</p> <p>60 L4_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* L4_BandWidth</p> <p>* L4_BankSlope</p> <p>61 L4_Top_Bank, MENU (Estimated top of bank)</p> <p>62 L4_Stage, MENU (Structural Stage)</p> <p>63 L4_Shrebs, MENU (Density of shrubs)</p> <p>64 L4_Snag, MENU (Presence of Snags)</p> <p>65 L4_Veteran, MENU (Veteran trees)</p> <p>66 L4_BkStability, MENU (Bank Stability)</p> <p>* L4_Comment (Comments Left bank riparian)</p> <p>* Caption</p>	<p>RIGHT RIPARIAN BAND3</p> <p>86 R3_RipClass, MENU (Riparian Class)</p> <p>87 R3_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* R3_BandWidth</p> <p>* R3_BankSlope</p> <p>88 R3_Top_Bank, MENU (Estimated top of bank)</p> <p>89 R3_Stage, MENU (Structural Stage)</p> <p>90 R3_Shrebs, MENU (Density of shrubs)</p> <p>91 R3_Snag, MENU (Presence of Snags)</p> <p>92 R3_Veteran, MENU (Veteran trees)</p> <p>93 R3_BkStability, MENU (Bank Stability)</p> <p>* R3_Comment (Comments Right bank riparian)</p> <p>* Caption</p>	<p>RIGHT RIPARIAN BAND4</p> <p>94 R4_RipClass, MENU (Riparian Class)</p> <p>95 R4_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* R4_BandWidth</p> <p>* R4_BankSlope</p> <p>96 R4_Top_Bank, MENU (Estimated top of bank)</p> <p>97 R4_Stage, MENU (Structural Stage)</p> <p>98 R4_Shrebs, MENU (Density of shrubs)</p> <p>99 R4_Snag, MENU (Presence of Snags)</p> <p>100 R4_Veteran, MENU (Veteran trees)</p> <p>101 R4_BkStability, MENU (Bank Stability)</p> <p>* R4_Comment (Comment Right bank riparian)</p> <p>* Caption</p>	<p>FLORA & FAUNA</p> <p>* CmmntFlora (Flora Comment)</p> <p>* CmmntFauna (Fauna Comment)</p>
<p>EXTRA RIGHT BAND</p> <p>* RX_BandWidth (right extra band width)</p> <p>* RX_Slope</p> <p>67 RX_Top_Bank, MENU (Estimated top of bank)</p> <p>* RX1_BandWidth (right extra band width)</p> <p>* RX1_Slope</p> <p>68 RX1_Top_Bank, MENU (Estimated top of bank)</p> <p>* RX_Comment (Comment right extra band)</p> <p>* Caption</p>	<p>RIGHT RIPARIAN BAND1</p> <p>* R_Bearing (Compass bearing from last point)</p> <p>69 R_RipClass, MENU (Riparian Class)</p> <p>70 R_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* R_BandWidth</p> <p>* R_BankSlope</p> <p>71 R_Top_Bank, MENU (Estimated top of bank)</p> <p>72 R_Stage, MENU (Structural Stage)</p> <p>73 R_Shrebs, MENU (Density of shrubs)</p> <p>74 R_Snag, MENU (Presence of Snags)</p> <p>75 R_Veteran, MENU (Veteran trees)</p> <p>76 R_BkStability, MENU (Bank Stability)</p> <p>77 R_Bank_Material, MENU</p> <p>* R_Comment (Comment Right bank riparian)</p> <p>* Caption</p>	<p>RIGHT RIPARIAN BAND2</p> <p>78 R2_RipClass, MENU (Riparian Class)</p> <p>79 R2_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* R2_BandWidth</p> <p>* R2_BankSlope</p> <p>80 R2_Top_Bank, MENU (Estimated top of bank)</p> <p>81 R2_Stage, MENU (Structural Stage)</p> <p>82 R2_Shrebs, MENU (Density of shrubs)</p> <p>83 R2_Snag, MENU (Presence of Snags)</p> <p>84 R2_Veteran, MENU (Veteran trees)</p> <p>85 R2_BkStability, MENU (Bank Stability)</p> <p>* R2_Comment (Comment Right bank riparian)</p> <p>* Caption</p>	<p>60. L4_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p>

<p>61. L4_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>62. L4_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>63. L4_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>64. L4_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>65. L4_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>66. L4_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p> <p>67. RX_Top_Bank, MENU (Estimated top of bank)</p> <p>* Yes</p> <p>* No</p> <p>68. RX1_Top_Bank, MENU (Estimated top of bank)</p> <p>* Yes</p> <p>* No</p> <p>69. R_RipClass, MENU (Riparian Class)</p> <p>* Broadleaf Forest</p> <p>* Bryophytes</p> <p>* Coniferous Forest</p> <p>* Planted Tree Farm</p> <p>* Disturbed Wetland</p> <p>* Dug Out Pond</p> <p>* Exposed Soil</p> <p>* Flood Plain</p> <p>* Herbs/Grasses</p> <p>* High Impervious</p> <p>* Low Impervious</p> <p>* Mixed Forest</p> <p>* Natural Wetland</p> <p>* Rock</p> <p>* Shrubs</p> <p>70. R_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p> <p>71. R_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p>	<p>72. R_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>73. R_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>74. R_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>75. R_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>76. R_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p> <p>77. R_Bank_Material, MENU</p> <p>* Concrete</p> <p>* Gabions</p> <p>* Piling</p> <p>* Stonework</p> <p>* RipRap</p> <p>* Retain Wall/Bank Sib</p> <p>* Sandbags</p> <p>* Wood</p> <p>* Bark_Mulch</p> <p>* Asphalt</p> <p>* Dyke</p> <p>* Fines</p> <p>* Gravel</p> <p>* Cobble</p> <p>* Boulder</p> <p>* Bed_Rock</p> <p>* Other</p> <p>78. R_RipClass, MENU (Riparian Class)</p> <p>* Row Crops</p> <p>* Broadleaf Forest</p> <p>* Bryophytes</p> <p>* Coniferous Forest</p> <p>* Planted Tree Farm</p> <p>* Disturbed Wetland</p> <p>* Dug Out Pond</p> <p>* Exposed Soil</p> <p>* Flood Plain</p> <p>* Herbs/Grasses</p> <p>* High Impervious</p> <p>* Medium Impervious</p> <p>* Low Impervious</p> <p>* Mixed Forest</p> <p>* Natural Wetland</p> <p>* Rock</p> <p>* Shrubs</p> <p>79. R_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p>
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<p>80. R2_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>81. R2_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>82. R2_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>83. R2_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>84. R2_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>85. R2_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p> <p>86. R3_RipClass, MENU (Riparian Class)</p> <p>* Row Crops</p> <p>* Broadleaf Forest</p> <p>* Bryophytes</p> <p>* Coniferous Forest</p> <p>* Planted Tree Farm</p> <p>* Disturbed Wetland</p> <p>* Dug Out Pond</p> <p>* Exposed Soil</p> <p>* Flood Plain</p> <p>* Herbs/Grasses</p> <p>* High Impervious</p> <p>* Medium Impervious</p> <p>* Low Impervious</p> <p>* Mixed Forest</p> <p>* Natural Wetland</p> <p>* Rock</p> <p>* Shrubs</p> <p>87. R3_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p> <p>88. R3_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>89. R3_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>90. R3_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p>	<p>80. R2_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>81. R2_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>82. R2_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>83. R2_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>84. R2_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>85. R2_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p> <p>86. R3_RipClass, MENU (Riparian Class)</p> <p>* Row Crops</p> <p>* Broadleaf Forest</p> <p>* Bryophytes</p> <p>* Coniferous Forest</p> <p>* Planted Tree Farm</p> <p>* Disturbed Wetland</p> <p>* Dug Out Pond</p> <p>* Exposed Soil</p> <p>* Flood Plain</p> <p>* Herbs/Grasses</p> <p>* High Impervious</p> <p>* Medium Impervious</p> <p>* Low Impervious</p> <p>* Mixed Forest</p> <p>* Natural Wetland</p> <p>* Rock</p> <p>* Shrubs</p> <p>87. R3_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p> <p>88. R3_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>89. R3_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>90. R3_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p>
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<p>91. R3_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>92. R3_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>93. R3_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p> <p>94. R4_RipClass, MENU (Riparian Class)</p> <p>* Row Crops</p> <p>* Broadleaf Forest</p> <p>* Bryophytes</p> <p>* Coniferous Forest</p> <p>* Planted Tree Farm</p> <p>* Disturbed Wetland</p> <p>* Dug Out Pond</p> <p>* Exposed Soil</p> <p>* Flood Plain</p> <p>* Herbs/Grasses</p> <p>* High Impervious</p> <p>* Medium Impervious</p> <p>* Low Impervious</p> <p>* Mixed Forest</p> <p>* Natural Wetland</p> <p>* Rock</p> <p>* Shrubs</p> <p>95. R4_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p> <p>96. R4_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>97. R4_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>* Old Forest</p> <p>98. R4_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>99. R4_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>100. R4_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>101. R4_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p>	<p>91. R3_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>92. R3_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>93. R3_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p> <p>94. R4_RipClass, MENU (Riparian Class)</p> <p>* Row Crops</p> <p>* Broadleaf Forest</p> <p>* Bryophytes</p> <p>* Coniferous Forest</p> <p>* Planted Tree Farm</p> <p>* Disturbed Wetland</p> <p>* Dug Out Pond</p> <p>* Exposed Soil</p> <p>* Flood Plain</p> <p>* Herbs/Grasses</p> <p>* High Impervious</p> <p>* Medium Impervious</p> <p>* Low Impervious</p> <p>* Mixed Forest</p> <p>* Natural Wetland</p> <p>* Rock</p> <p>* Shrubs</p> <p>95. R4_Qualifier, MENU (Riparian Class Qualifier)</p> <p>* Agriculture</p> <p>* Natural</p> <p>* Urban_Residential</p> <p>* Recreation</p> <p>* Disturbed</p> <p>* Unknown</p> <p>96. R4_Top_Bank, MENU (Estimated Top of Bank)</p> <p>* Yes</p> <p>* No</p> <p>97. R4_Stage, MENU (Structural Stage)</p> <p>* Low Shrubs <2m</p> <p>* Tall Shrubs 2-10m</p> <p>* Sapling >10m</p> <p>* Young Forest</p> <p>* Mature Forest</p> <p>* Old Forest</p> <p>98. R4_Shrebs, MENU (Density of Shrubs)</p> <p>* <5%</p> <p>* 5-33%</p> <p>* 34-66%</p> <p>* 67-100%</p> <p>99. R4_Snag, MENU (Presence of Snags)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>100. R4_Veteran, MENU (Veteran Trees)</p> <p>* No</p> <p>* <5</p> <p>* >=5</p> <p>101. R4_BkStability, MENU (Bank Stability)</p> <p>* High</p> <p>* Medium</p> <p>* Low</p>
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SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

<p>CULVERT, point</p> <ul style="list-style-type: none"> * Point_number (unique point identification) 102 Type_Culvert, MENU (Type of culvert) 103 Owner, MENU 104 Condition, MENU (condition of culvert) 105 Barrier, MENU (Obstructs fish passage) 106 Material, MENU (Culvert material) 107 Substrate, MENU (substrate within culvert) 108 Form, MENU (Shape of culvert) * Length (Feature length) * Width (Width of Feature) * Height (Height of culvert above streambed) * Depth (Depth of plunge pool) * Diameter (Diameter of culvert) * ScreenSize * StormOutlets 109 Headwall, MENU (Does a headwall exist) 110 Apron, MENU (Does an apron exist) 111 Baffles, MENU (Do baffles exist) * Comments * PhotoNum (Roll and print number of photograph) 	<p>108. Form, MENU (Shape of Culvert)</p> <ul style="list-style-type: none"> * Circular * Rectangular * Arch * Vertical Ellipse * Horizontal Ellipse * Other <p>109. Headwall, MENU (Does a Headwall Exist)</p> <ul style="list-style-type: none"> * Concrete Block * Gabion * Sand Bag * Wood <p>110. Apron, MENU (Does an Apron Exist)</p> <ul style="list-style-type: none"> * Yes * No <p>111. Baffles, MENU (Do Baffles Exist)</p> <ul style="list-style-type: none"> * Yes * No 	<p>MODIFICATION, point</p> <ul style="list-style-type: none"> * Point_number (unique point identification) 115 Type_Modification, MENU (Code for feature) 116 Bank, MENU 117 Type Material, MENU * Length (Feature length) * Width (Width of Feature) * Height (Height of feature) * PhotoNum (Roll and print number of photograph) * Comments 	<p>DISCHARGE, point</p> <ul style="list-style-type: none"> * Point_number (unique point identification) 118 Type_Discharge, MENU (Code for feature) 119 Bank, MENU 120 Material, MENU (Culvert material) 121 Headwall, MENU (Does a headwall exist) * Length (Feature length) * Width (Width of Feature) * Diameter (Diameter of feature) * Height (Height of feature) * Temperature (Water temperature) * PhotoNum (Roll and print number of photograph) * Comments 	<p>EROSION, point</p> <ul style="list-style-type: none"> * Point_number (unique point identification) 122 Source_Erosion, MENU (code for feature) 123 Bank, MENU 124 Severity, MENU 125 Exposure, MENU * Length (Feature length) * Width (Width of Feature) * Height (Height of feature) * Slope * PhotoNum (roll and print no. of photos) * Comments 	<p>FISH HABITAT, point</p> <ul style="list-style-type: none"> * Point_number (unique point identification) 126 Type_Habitat, MENU (Code for feature) 127 Bank, MENU * Length (Feature length) * Width (Width of Feature) * Depth (Depth of feature) * PhotoNum (Roll and print number of photograph) * Comments
<p>102. Type Culvert, MENU (Type of Culvert)</p> <ul style="list-style-type: none"> * Box Culvert * Gated Inlet * Gated Outlet * Gated Multiple Inlet * Gated Multiple Out * Inlet * Inlet Stacked * Multiple Inlet * Outlet * Outlet Stacked <p>103. Owner, MENU</p> <ul style="list-style-type: none"> * Municipal * Private <p>104. Condition, MENU (Condition of Culvert)</p> <ul style="list-style-type: none"> * Good * Partially Collapsed * Collapsed/Plugged <p>105. Barrier, MENU (Obstructs Fish Passage)</p> <ul style="list-style-type: none"> * Yes * No * Potential * Unknown <p>106. Material, MENU (Culvert Material)</p> <ul style="list-style-type: none"> * Concrete * Steel * Wood * Iron * Metal_Concrete * PVC * Asphalt Coded * Corrugated Steel * Other <p>107. Substrate, MENU (Substrate within Culvert)</p> <ul style="list-style-type: none"> * Boulders * Cobbles * Fines * Gravels * Mixed * Same as Culvert 	<p>OBSTRUCTION, point</p> <ul style="list-style-type: none"> * Point_number (unique point identification) 112 Type_Obstruction, MENU (Code for feature) 113 Bank, MENU 114 Barrier, MENU (Obstructs fish passage) * Length (Feature length) * Width (Width of Feature) * Depth (Depth of feature) * Diameter (Diameter of feature) * Height (Height of feature) * Slope * ScreenSize * PhotoNum (Roll and print number of photograph) * Comments 	<p>115. Type_Modification, MENU (Code for Feature)</p> <ul style="list-style-type: none"> * Bridge * Catchbasin * Channelization * Dam * Detention Pond * Dock * Dredging * Fences * FloodGate * Garbage/Pollution * Gravel Pit * Livestock Crossing * Logging * PipeCrossing * Pump Station * Retain Wall/Bank Sib * Rip_Rap * Road * Trail * Water Withdrawal * Other <p>116. Bank, MENU</p> <ul style="list-style-type: none"> * Both * Instream * Left * Right <p>117. Type Material, MENU</p> <ul style="list-style-type: none"> * Concrete * Gabions * Piling * Stonework * Sandbags * Wood * Gravel * Bark_Mulch * Asphalt * Dyke * Other 	<p>118. Type_Discharge, MENU (Code for Feature)</p> <ul style="list-style-type: none"> * Agricultural Runoff * HouseEffluent * Landfill Leachates * Pollutant * Pulp Mill/Effluent * Storm Drain * Septic Effluent * Tile Drain * Trench * Other <p>119. Bank, MENU</p> <ul style="list-style-type: none"> * Both * Instream * Left * Right <p>120. Material, MENU (Culvert Material)</p> <ul style="list-style-type: none"> * Concrete * Steel * Wood * Iron * PVC * Asphalt Coded * Corrugated Steel * Other <p>121. Type Material, MENU (Does a Headwall Exist)</p> <ul style="list-style-type: none"> * Concrete Block * Gabion * Sand Bag * Wood 	<p>122. Source_Erosion, MENU (Code for Feature)</p> <ul style="list-style-type: none"> * Bank Erosion * Culvert * Headwall * Lack of Riparian Veg * Livestock Access * Streamside Grazing * Landslide * Debris Flow/Torrent * Sloughing * Other <p>123. Bank, MENU</p> <ul style="list-style-type: none"> * Both * Instream * Left * Right <p>124. Severity, MENU</p> <ul style="list-style-type: none"> * <5m sq * 5-10m sq * >10m sq <p>125. Exposure, MENU</p> <ul style="list-style-type: none"> * Clay * Till * Bedrock * Roots * Soil * Other 	<p>126. Type_Habitat, MENU (Code for Feature)</p> <ul style="list-style-type: none"> * Boulder * Deep Pool * Instream Vegetation * Large Woody Debris * Over Stream Veget. * Small Woody Debris * Spawning Habitat * Undercut Bank * Other <p>127. Bank, MENU</p> <ul style="list-style-type: none"> * Both * Instream * Left * Right

SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

FISH SAMPLE, point
 * Point_number (unique poin identification)
 * TrapNo (Mimnow Trap number)
 * DateIn (Date Trap was set)
 * DateOut (Date Trap removed)
 128 Method, MENU (Method of detection)
 129 Species, MENU (Code for fish species)
 * Count_total (Number of fish sampled)
 130 Redd, MENU (Presence of redd)
 * PhotoNum (Roll and print number of photograph)
 * Comments
 * Caption

SPECIES 1

131 Sp_1, MENU (Code for fish species)
 * Count_1 (Number of fish sampled)
 132 Age_1, MENU (Life history stage of fish)
 * ForkLth_1
 * Caption

SPECIES 2

133 Sp_2, MENU (Code for fish species)
 * Count_2 (Number of fish sampled)
 134 Age_2, MENU (Life history stage of fish)
 * ForkLth_2
 * Caption

SPECIES 3

135 Sp_3, MENU (Code for fish species)
 * Count_3 (Number of fish sampled)
 136 Age_3, MENU (Life history stage of fish)
 * ForkLth_3
 * Caption

SPECIES 4

137 Sp_4, MENU (Code for fish species)
 * Count_4 (Number of fish sampled)
 138 Age_4, MENU (Life history stage of fish)
 * ForkLth_4
 * Caption

SPECIES 5

139 Sp_5, MENU (Code for fish species)
 * Count_5 (Number of fish sampled)
 140 Age_5, MENU (Life history stage of fish)
 * ForkLth_5
 * Caption

SPECIES 6

141 Sp_6, MENU (Code for fish species)
 * Count_6 (Number of fish sampled)
 142 Age_6, MENU (Life history stage of fish)
 * ForkLth_6
 * Caption

128. Method, MENU (Method of Detection)
 * Visual
 * Trap
 * Other

129. Species, MENU (Code for Fish Species)

* General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

130. Redd, MENU (Presence of Redd)

* Yes
 * No
131. Sp_1, MENU (Code for Fish Species)
 * General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

132. Age_1, MENU (Life History Stage of Fish)

* Juvenile
 * Immature
 * Mature
 * Spawning
 * Spent
 * Varied
 * Mort

133. Sp_2, MENU (Code for Fish Species)

* General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

134. Age_2, MENU (Life History Stage of Fish)

* Juvenile
 * Immature
 * Mature
 * Spawning
 * Spent
 * Varied
 * Mort

135. Sp_3, MENU (Code for Fish Species)

* General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

136. Age_3, MENU (Life History Stage of Fish)

* Juvenile
 * Immature
 * Mature
 * Spawning
 * Spent
 * Varied
 * Mort

137. Sp_4, MENU (Code for Fish Species)

* General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

138. Age_4, MENU (Life History Stage of Fish)

* Juvenile
 * Immature
 * Mature
 * Spawning
 * Spent
 * Varied
 * Mort

139. Sp_5, MENU (Code for Fish Species)

* General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

140. Age_5, MENU (Life History Stage of Fish)

* Juvenile
 * Immature
 * Mature
 * Spawning
 * Spent
 * Varied
 * Mort

141. Sp_6, MENU (Code for Fish Species)

* General Fish Observn
 * Bull Trout
 * Coho
 * Chinook
 * Chum
 * Cutthroat Trout
 * Westslope Cutthroat
 * Dolly Varden
 * Anadromous Dolly Var
 * Pink
 * Rainbow
 * Stickleback
 * Salmonid
 * Sculpin
 * Sockeye
 * Steelhead
 * Sucker
 * Trout
 * Whitefish
 * Other

142. Age_6, MENU (Life History Stage of Fish)

* Juvenile
 * Immature
 * Mature
 * Spawning
 * Spent
 * Varied
 * Mort

ENHANCEMENT, point

* Point_number (unique point identification)
 143 Type_Enhancement, MENU (Code for feature)
 144 Bank, MENU
 145 Status, MENU (Potential or Existing Enhancement)
 * Length (Feature length)
 * Width (Width of Feature)
 * Height (Height of feature)
 * Diameter (Diameter of feature)
 * Comments
 * PhotoNum (Roll and print number of photograph)

143. Type_Enhancement, MENU (Code for Feature)

* Fishways
 * Hatchery
 * Incubation Box
 * LWD Placement
 * Log/Rock Wiers
 * Riparian Plantings
 * Riparian Zone Fence
 * Rock/Boulder Placement
 * Side Channel/Pools
 * Spawning Gravel
 * Veg Bank Stabilize
 * Other

144. Bank, MENU

* Both
 * Instream
 * Left
 * Right

145. Status, MENU (Potential or Existing Enhancements)

* Existing
 * Potential

SENSITIVE HABITAT INVENTORY MAPPING - DATA DICTIONARY v23~modified

WILDLIFE, point
 * Point_number (unique point identification)
 146 Type_Evidence, MENU
 147 Class_Wildlife, MENU
 148 Bank, MENU
 * Species_Wildlife
 * CmmmfFauna (Fauna Comment)
 * PhotoNum (roll and print no. of photos)

146. Type_Evidence, MENU
 * Calls
 * Egg masses
 * Nest
 * Sighted
 * Scat/Droppings
 * Tracks
 * Other
147. Class_Wildlife, MENU
 * Amphibian
 * Large Mammal
 * Songbird
 * Raptor
 * Reptile
 * Small Mammal
 * Waterbirds
 * Waterfowl
148. Bank, MENU
 * Both
 * Instream
 * Left
 * Right

TREE_WILDLIFE, point
 * Point_number (unique point identification)
 149 Type_Tree, MENU
 150 Veteran_tree, MENU (Point Locatino of a Veteran Tree)
 * DBH (Diameter Breast Height)
 151 Mast_tree, MENU
 152 Bank, MENU
 153 Nesting, MENU
 154 State, MENU (State of Wildlife Tree)
 155 Woodpkr_use, MENU
 156 Denning, MENU
 157 Perches, MENU
 158 Cavities, MENU
 * CmmmfFlora (Flora Comment)
 * PhotoNum (Roll and print number)

149. Type_Tree, MENU
 * Coniferous
 * Deciduous
 * Unknown
150. Veteran_tree, MENU (Point Location of a Veteran Tree)
 * Yes
151. Mast_tree, MENU
 * Yes
152. Bank, MENU
 * Both
 * Instream
 * Left
 * Right
153. Nesting, MENU
 * Potential
 * Large
 * Small
154. State, MENU (State of Wildlife Tree)
 * Living
 * Dead
 * Unknown
155. Woodpkr_use, MENU
 * Yes
156. Denning, MENU
 * Yes
157. Perches, MENU
 * Yes
158. Cavities, MENU
 * 1
 * 2
 * 3
 * 4+

WATERBODY, point
 * Point_number (unique point identification)
 159 Type_Waterbody, MENU (Code for feature)
 160 Bank, MENU
 * Length (Waterbody length)
 * Width (Bankfull Width)
 * Depth (Bankfull Depth)
 * Temperature (Water temperature)
 * PhotoNum (Roll and print number of photograph)
 * Comments

159. Type_Waterbody, MENU (Code for Feature)
 * Discontinued
 * Ditch
 * Natural Springs
 * Side Channel
 * Tributary
 * Wetland
 * Beaver Pond
 * Other
160. Bank, MENU
 * Both
 * Instream
 * Left
 * Right

WETLAND, line
 * Point_number (unique point identification)
 * Length (Feature length)
 * Width (Width of Feature)
 * Distance (Distance to last point for chain survey)
 * Bearing (Compass bearing to last point)
 * Comments

WATER_SAMPLE, point
 * Point_number (unique point identification)
 * TDS (Total Dissolved Solids)
 * pH
 * Temp (Degrees Centigrade)
 * DO (Dissolved Oxygen)
 161 Turbidity, MENU
 * Comments

161. Turbidity, MENU
 * Clear
 * Lightly Turbid
 * Moderately Turbid
 * Turbid
 * Other

PHOTO_LOCATION, point
 * Point_number (unique point identification)
 * Photo_Roll_&_Frame
 * Photo_Direction, MENU
 * Photo_Bearing
 * Photo_Comments

157. Photo_Direction, MENU
 * Upstream
 * Downstream
 * Across_stream
 * Up
 * Down

