Summary of Changes to the CRAM Riverine Field Book
Version 6.0 to Version 6.1
1/18/2013

Title Page:
• Updated version number and date of release

Basic Information Page:
• Changed order of Names and ID numbers so that the AA Name is first
• Changed “Project Site ID” to “Project ID #” still for use with mitigation or other projects that have a unique identifying number that should be on each data sheet
• Changed “CRAM Site ID” to “Assessment Area ID #” for use with large-scale projects that have many AAs.
• Added Datum to AA location

Score Sheet Page:
• Added page number references for each Attribute
• Changes “Aquatic Area Abundance” to “Stream Corridor Continuity”
• Removed language that says to round the raw attribute scores and Plant Community Metric scores to nearest whole integer.

Identify Wetland Type:
• Updated with new flowchart that has slope wetlands etc.

Riverine Wetlands Description:
• Updated description with additional language on state wetland definition and caveats for ephemeral streams and large rivers.
• Added examples of landscapes that have confined streams

Entrenchment/Confinement Description:
• Updated language and added special note on relationship between the two, and updated descriptions for Figure 2.
• Added definition of bankfull for use in determining confinement

Establish the Assessment Area:
• Added stream specific language
• Clarified importance of riparian areas to all wetlands, not just streams
• Updated lateral extent figure so that the edge of the AA includes the entire dripline of the trees that overhang the floodplain
• Tables 1 and 2: changed the word “delineate” to “establish boundaries”
• Inserted reference to the CRAM photo dictionary

Attribute 1: Buffer and Landscape Context
Metric 1 - Stream Corridor Continuity

- Changed named of Riparian Continuity to Stream Corridor Continuity (Aquatic Area Abundance for all other wetland types)
- Replaced “riparian” with “stream” throughout
- Added language to clarify procedure for assessing Stream Corridor Continuity
- Revised descriptions for Figure 4 to clarify the method to measure breaks in continuity (for bridges that disrupt both sides of the stream).
- Added “upstream” and “downstream” labels to Figure 4
- Separated Table 5 into two separate tables: 5A for two-sided AAs and 5b for one-sided AAs

Metric 2 - Buffer

- Added reference to the CRAM photo dictionary for Table 6
- Added red lines to Figure 6 to indicate where no buffer is present and therefore buffer width lines are not drawn
- Added a note to Table 10 to refer to the CRAM photo dictionary for photos of various buffer conditions
- Added option to D for buffer condition: “or there is no buffer present”

Attribute 2: Hydrology

Metric 1 - Water Source

- Added and removed language from the definition

Metric 2 - Channel Stability

- Added special note to clarify that the checklist should be used to guide BPJ but is not a quantitative measure
- Added reference to the CRAM photo dictionary and the glossary in the User’s Manual
- Added definition of well-sorted bars to the checklist
- Revised narrative in Table 12: removed “the channel seems to be approaching an equilibrium form” from the B text, added language on sediment transport

Metric 3 - Hydrological Connectivity

- Added additional language to the definition of the metric regarding bankfull flow
- Revised definition of bankfull in Special Notes
- Added language to clarify procedure to do the 10% test

Attribute 3 Physical Structure:

Metric 1 - Structural Patch Richness

- Added reference to the CRAM photo dictionary
- Revised definitions for abundant wrackline, bank slumps, and cobbles and boulders
• Added language to worksheet to indicate that not all features in a site will be counted as patch types

Metric 2- Topographic Complexity
• Added definition of a bench to Special Notes
• Added a second option for B of 1 bench with abundant micro, changed C to be one bench without micro

Attribute 4 Biotic Structure:

Metric 1-Plant Community
• Added sentence to definition of Submetric A about the height of vines
• Layer definitions: revised example species for each layer
• Revised flowchart for plant dominance: changed

Step 1: Determine the number of plant layers. Estimate which possible layers comprise at least 5% of the portion of the AA that is suitable for supporting vascular vegetation.

Changed to: suitable for supporting that layer.
• Added Special Note on collecting plants for identification
• Added reference to the CRAM photo dictionary
• Plant Community Worksheet: added “round to nearest whole integer” for percent invasive species
• Table 18: changed D to 0-1 instead of 0, changed C to 2 instead of 1-2

Metric 2-Horizontal Interspersion
• Revised definition: changed examples of zones so that they are not each a different plant height class layer

Metric 3-Vertical Biotic Structure
• Added additional examples of overlap in figure 13
• Made it clear in the figure and the figure text that all layers count in the assessment of this metric
• Removed “or 3 layers are well represented in the AA with little or no overlap” from C score, also removed “2 layers are well represented in the AA with little or no overlap” from D score

Stressor Worksheet:
• In worksheet for conversions, changed “seasonal estuarine” to “bar-built estuarine”

CRAM Score Guidelines
• Revised guidelines to keep significant figures in calculations until the final Index Score is reached (no rounding to improve precision)