```
                    WETLANDS AND DEEPWATER HABITATS CLASSIFICATION


SYSTEM             SUBSYSTEM          CLASS                    SUBCLASS

                                     |- RB=Rock Bottom          1=Bedrock
                                     |                          2=Rubble
                                     |
                                     |- UB=Unconsolidated Bottom 1=Cobble-Gravel
                                     |                          2=Sand
                                     |                          3=Mud
                                     |                          4=Organic
                                     |
                   |-- 1=SUBTIDAL----|- AB=Aquatic Bed          1=Algal
                   |                 |                          3=Rooted
Vascular
                   |                 |                          5=Unknown
                   |                 |                            Submergent
                   |                 |
                   |                 |- RF=Reef                 1=Coral
                   |                 |                          3=Worm
                   |                 |
                   |                 |- OW=Open Water/Unknown Bottom (used on
older
                   |                                             maps)
M=MARINE--------|
                   |
                   |
                   |                 |- AB=Aquatic Bed          1=Algal
                   |                 |                          3=Rooted
Vascular
                   |                 |                          5=Unknown
                   |                 |                            Submergent
                   |                 |
                   |                 |- RF=Reef                 1=Coral
                   |-- 2=INTERTIDAL--|                          3=Worm
                                     |
                                     |- RS=Rocky Shore          1=Bedrock
                                     |                          2=Rubble
                                     |
                                     |- US=Unconsolidated Shore 1=Cobble-Gravel
                                                                2=Sand
                                                                3=Mud
                                                                4=Organic
```

```
SYSTEM              SUBSYSTEM           CLASS                   SUBCLASS

                                        |- RB=Rock Bottom        1=Bedrock
                                        |                        2=Rubble
                                        |
                                        |- UB=Unconsolidated Bottom  1=Cobble-Gravel
                                        |                        2=Sand
                                        |                        3=Mud
                                        |                        4=Organic
                                        |
                    |-- 1=SUBTIDAL----|- AB=Aquatic Bed         1=Algal
                    |                  |                        3=Rooted
Vascular
                    |                  |                        4=Floating
                    |                  |                          Vascular
                    |                  |                        5=Unknown
                    |                  |                          Submergent
                    |                  |                        6=Unknown
Surface
                    |                  |
                    |                  |- RF=Reef               2=Mollusc
                    |                  |                        3=Worm
                    |                  |
                    |                  |- OW=Open Water/Unknown Bottom (used on
older
                    |                                                   maps)
E=ESTUARINE-----|
                    |
                    |
                    |                  |- AB=Aquatic Bed         1=Algal
                    |                  |                        3=Rooted
Vascular
                    |                  |                        4=Floating
                    |                  |                          Vascular
                    |                  |                        5=Unknown
                    |                  |                          Submergent
                    |                  |                        6=Unknown
Surface
                    |                  |
                    |                  |- RF=Reef               2=Mollusc
                    |                  |                        3=Worm
                    |                  |
                    |                  |- SB=Streambed          3=Cobble-Gravel
                    |                  |                        4=Sand
                    |                  |                        5=Mud
                    |                  |                        6=Organic
                    |                  |
                    |                  |- RS=Rocky Shore        1=Bedrock
```

```
                     |                    |              2=Rubble
                     |                    |
                     |-- 2=INTERTIDAL--|- US=Unconsolidated Shore   1=Cobble-Gravel
                     |                    |              2=Sand
                     |                    |              3=Mud
                     |                    |              4=Organic
                     |                    |
                     |                    |- EM=Emergent             1=Persistent
                     |                    |              2=Nonpersistent
                     |                    |
                     |                    |- SS=Scrub-Shrub          1=Broad-Leaved
                     |                    |                 Deciduous
                     |                    |              2=Needle-Leaved
                     |                    |                 Deciduous
                     |                    |              3=Broad-Leaved
                     |                    |                 Evergreen
                     |                    |              4=Needle-Leaved
                     |                    |                 Evergreen
                     |                    |              5=Dead
                     |                    |              6=Indeterminate
                     |                    |                 Deciduous
                     |                    |              7=Indeterminate
                     |                    |                 Evergreen
                     |                    |
                     |                    |- FO=Forested             1=Broad-Leaved
                     |                                     Deciduous
                     |                                  2=Needle-Leaved
                     |                                     Deciduous
                     |                                  3=Broad-Leaved
                     |                                     Evergreen
                     |                                  4=Needle-Leaved
                     |                                     Evergreen
                     |                                  5=Dead
                     |                                  6=Indeterminate
                     |                                     Deciduous
                     |                                  7=Indeterminate
                     |                                     Evergreen


SYSTEM               SUBSYSTEM           CLASS                       SUBCLASS

                                       |- RB=Rock Bottom             1=Bedrock
                                       |              2=Rubble
                                       |
                                       |- UB=Unconsolidated Bottom  1=Cobble-Gravel
                                       |              2=Sand
```

```
                  |--1=TIDAL--------|                              3=Mud
                  |                 |                              4=Organic
                  |                 |
                  |                 |-*SB=Streambed                1=Bedrock
                  |                 |                              2=Rubble
                  |                 |                              3=Cobble-Gravel
                  |--2=LOWER        |                              4=Sand
                  |     PERENNIAL----|                             5=Mud
                  |                 |                              6=Organic
                  |                 |                              7=Vegetated
                  |                 |
                  |                 |- AB=Aquatic Bed              1=Algal
R=RIVERINE------|--3=UPPER          |                             2=Aquatic Moss
                  |     PERENNIAL----|                            3=Rooted
Vascular
                  |                 |                              4=Floating
                  |                 |                                Vascular
                  |                 |                              5=Unknown
                  |                 |                                Submergent
                  |--4=INTERMITTENT-|                             6=Unknown
Surface
                  |                 |
                  |                 |- RS=Rocky Shore             1=Bedrock
                  |                 |                              2=Rubble
                  |                 |
                  |                 |- US=Unconsolidated Shore    1=Cobble-Gravel
                  |--5=UNKNOWN       |                            2=Sand
                  |     PERENNIAL----|                            3=Mud
                   (used on older   |                             4=Organic
                    maps)           |                             5=Vegetated
                                    |
                                    |-**EM=Emergent               2=Nonpersistent
                                    |
                                    |- OW=Open Water/Unknown Bottom (used on
older
                                    |                            maps)
                                    |-*STREAMBED is limited to TIDAL and
                                    | INTERMITTENT SUBSYSTEMS, and comprises
                                    | the only CLASS in the INTERMITTENT
SUBSYSTEM.
                                    |
                                    |-**EMERGENT is limited to TIDAL and LOWER
                                    | PERENNIAL SUBSYSTEMS.



SYSTEM              SUBSYSTEM        CLASS                        SUBCLASS
```

```
                                    |- RB=Rock Bottom          1=Bedrock
                                    |                          2=Rubble
                                    |
                                    |- UB=Unconsolidated Bottom 1=Cobble-Gravel
                                    |                          2=Sand
                                    |                          3=Mud
                                    |                          4=Organic
                                    |
                  |-- 1=LIMNETIC----|- AB=Aquatic Bed          1=Algal
                  |                 |                          2=Aquatic Moss
                  |                 |                          3=Rooted
Vascular
                  |                 |                          4=Floating
                  |                 |                            Vascular
                  |                 |                          5=Unknown
                  |                 |                            Submergent
                  |                 |                          6=Unknown
Surface
                  |                 |
                  |                 |- OW=Open Water/Unknown Bottom (used on
older
                  |                                            maps)
L=LACUSTRINE----|
                  |
                  |
                  |                 |- RB=Rock Bottom          1=Bedrock
                  |                 |                          2=Rubble
                  |                 |
                  |                 |- UB=Unconsolidated Bottom 1=Cobble-Gravel
                  |                 |                          2=Sand
                  |                 |                          3=Mud
                  |                 |                          4=Organic
                  |                 |
                  |                 |- AB=Aquatic Bed          1=Algal
                  |                 |                          2=Aquatic Moss
                  |                 |                          3=Rooted
Vascular
                  |                 |                          4=Floating
                  |-- 2=LITTORAL----|                           Vascular
                  |                 |                          5=Unknown
                  |                 |                            Submergent
                  |                 |                          6=Unknown
Surface
                  |
                  |                 |- RS=Rocky Shore          1=Bedrock
                  |                 |                          2=Rubble
                  |                 |
```

```
                              |- US=Unconsolidated Shore   1=Cobble-Gravel
                              |                            2=Sand
                              |                            3=Mud
                              |                            4=Organic
                              |                            5=Vegetated
                              |
                              |- EM=Emergent               2=Nonpersistent
                              |
                              |- OW=Open Water/Unknown Bottom (used on
older
                                                    maps)


SYSTEM              SUBSYSTEM        CLASS                 SUBCLASS

                              |- RB=Rock Bottom            1=Bedrock
                              |                            2=Rubble
                              |
                              |- UB=Unconsolidated Bottom  1=Cobble-Gravel
                              |                            2=Sand
                              |                            3=Mud
                              |                            4=Organic
                              |
                              |- AB=Aquatic Bed            1=Algal
                              |                            2=Aquatic Moss
                              |                            3=Rooted
Vascular
                              |                            4=Floating
                              |                              Vascular
                              |                            5=Unknown
                              |                              Submergent
                              |                            6=Unknown
Surface
                              |
                              |- US=Unconsolidated Shore   1=Cobble-Gravel
                              |                            2=Sand
                              |                            3=Mud
                              |                            4=Organic
                              |                            5=Vegetated
                              |
                              |- ML=Moss-Lichen            1=Moss
                              |                            2=Lichen
                              |
P=PALUSTRINE--------------------|- EM=Emergent            1=Persistent
                              |                            2=Nonpersistent
                              |
                              |- SS=Scrub-Shrub            1=Broad-Leaved
```

```
                                          |                              Deciduous
                                          |                              2=Needle-Leaved
                                          |                              Deciduous
                                          |                              3=Broad-Leaved
                                          |                              Evergreen
                                          |                              4=Needle-Leaved
                                          |                              Evergreen
                                          |                              5=Dead
                                          |                              6=Indeterminate
                                          |                              Deciduous
                                          |                              7=Indeterminate
                                          |                              Evergreen
                                          |
                                          |- FO=Forested              1=Broad-Leaved
                                          |                              Deciduous
                                          |                              2=Needle-Leaved
                                          |                              Deciduous
                                          |                              3=Broad-Leaved
                                          |                              Evergreen
                                          |                              4=Needle-Leaved
                                          |                              Evergreen
                                          |                              5=Dead
                                          |                              6=Indeterminate
                                          |                              Deciduous
                                          |                              7=Indeterminate
                                          |                              Evergreen
                                          |
                                          |- OW=Open Water/Unknown Bottom (used on
older

                                                                      maps)



                                       MODIFIERS

                              |- A=Temporarily Flooded
                              |- B=Saturated
                              |- C=Seasonally Flooded
                              |- D=Seasonally Flooded/Well Drained
                              |- E=Seasonally Flooded/Saturated
                              |- F=Semipermanently Flooded
            |--Non-Tidal------|- G=Intermittently Exposed
            |                 |- H=Permanently Flooded
            |                 |- J=Intermittently Flooded
            |                 |- K=Artificially Flooded
            |                 |- W=Intermittently Flooded/Temporary (used
on
            |                 |                                      older
```

```
maps)
                |                                  |- Y=Saturated/Semipermanent/Seasonal (used
on
                |                                  |                                    older
maps)
                |                                  |- Z=Intermittently Exposed/Permanent (used
on
                |                                  |                                    older
maps)
WATER REGIME----|                                  |- U=Unknown
                |
                |
                |
                |
                |                                  |- K=Artificially Flooded
                |                                  |- L=Subtidal
                |                                  |- M=Irregularly Exposed
                |                                  |- N=Regularly Flooded
                |--Tidal----------|- P=Irregularly Flooded
                                   |-*S=Temporary-Tidal
                                   |-*R=Seasonal-Tidal
                                   |-*T=Semipermanent-Tidal
                                   |-*V=Permanent-Tidal
                                   |- U=Unknown
                                   |
                                   |-*These water regimes are only used in
                                   |  tidally influenced, freshwater systems.



                                   |- 1=Hyperhaline
                                   |- 2=Euhaline
                |--Coastal         |- 3=Mixohaline (Brackish)
                |   Halinity-------|- 4-Polyhaline
                |                  |- 5=Mesohaline
                |                  |- 6=Oligohaline
                |                  |- 0=Fresh
                |
                |
                |
WATER CHEMISTRY-|
                |                  |- 7=Hypersaline
                |--Inland          |- 8=Eusaline
                |   Salinity-------|- 9=Mixosaline
                |                  |- 0=Fresh
                |
                |
                |
```

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              |
              |--pH Modifiers    |- a=Acid
                 for all         |- t=Circumneutral
                 Fresh Water----|- i=Alkaline




SOIL-------------------------------|- g=Organic
                                   |- n=Mineral




                                   |- b=Beaver
                                   |- d=Partially Drained/Ditched
SPECIAL MODIFIERS----------------|- f=Farmed
                                   |- h=Diked/Impounded
                                   |- r=Artificial Substrate
                                   |- s=Spoil
                                   |- x=Excavated

U = Uplands
```