

1 **26.24.01.**

2
3 **.02 Definitions.**

4
5 A. In this subtitle, the following terms have the meanings indicated.

6
7 B. Terms Defined.

8
9 (1) "Administration" means the Water Management Administration, a unit of the
10 Department of the Environment designated by the Secretary of the Environment to
11 administer Environment Article, Title 16, Annotated Code of Maryland.

12
13 (2) "Administrative Procedure Act" means the provisions of State Government Article,
14 Title 10, Subtitle 2, Annotated Code of Maryland.

15
16 (3) "Aggrieved party" means an applicant, licensee, permittee, the Department, the
17 county or municipal government where the proposed activity is located, or a person
18 [whose rights, duties, statutory entitlements, privileges, or other substantial interests may
19 be directly impacted by the regulated activity] who has a specific right, duty, privilege, or
20 interest which is or may be adversely impacted by the permit determination or license
21 decision and which is different from that held by the general public.

22
23 (4) "Aquaculture" means the commercial rearing of fish including shellfish and aquatic
24 plants listed in COMAR 08.02.14.07, or otherwise permitted by that chapter.

25
26 (5) "Best management practices" means conservation practices or systems of practices
27 and management measures that:

28
29 (a) Control soil loss and reduce water quality degradation caused by runoff,
30 nutrients, animal waste, toxicants, and sediment if best management practices do not
31 dredge or fill tidal wetlands; and

32
33 (b) Minimize adverse impacts to the surface water, ground water flow, circulation
34 patterns, and to the chemical, physical, and biological characteristics of tidal wetlands.

35
36 (6) "Board" means the Board of Public Works.

37
38 (7) "Boathouse" means a structure with a roof or cover, or similar device placed over
39 open water to protect a boat or other vessel.

40
41 (8) "Breakwater" means an offshore structure designed to protect any landform or
42 water area behind them from direct assault of waves.

43
44 (9) "Buffer Management Plan" means, for each portion of the Critical Area Buffer that
45 will be disturbed in connection with the performance of a shore erosion control activity,
46 a detailed plan of the Critical Area Buffer that shows:

- 1 (a) All existing vegetation, including all vegetation that is proposed for removal;
2 (b) The limits of disturbance by location and by square footage, including
3 grading, clearing of natural vegetation, means of access for construction, and any
4 permanent impacts associated with the structure proposed for shore erosion control; and
5 (c) A planting plan and mitigation strategy to:
6 (i) Offset disturbance in the Critical Area Buffer associated with the shore
7 erosion control activity; and
8 (ii) Restore the area with native vegetation, including the number, size,
9 species, location, and spacing of the planting materials; and
10 (d) Any other element as required by the local critical area program.

11
12 (10) "Bulkhead" means a vertical structure composed of wood, stone, concrete, plastic,
13 or other similar material designed to retain land or to protect land from wave damage.

14
15 [(8)] (11) "Containment structure" means a facility designed for the sole purpose of
16 accepting and confining dredged material from tidal waters while allowing the release of
17 effluent, and excludes those structures designed to contain, impound, or obstruct the
18 waters of the State as defined by Environment Article, §5-501, Annotated Code of
19 Maryland.

20
21 [(9)] (12) "Coastal [bays] Bays" means the estuaries situated between Maryland's
22 Atlantic Ocean barrier islands and the opposing shoreline of the mainland which include
23 Chincoteague Bay, Sinepuxent Bay, Isle of Wight, Newport Bay, Assawoman Bay, and
24 the St. Martin River.

25
26 [(10)] (13) "Critical Area" means the Chesapeake [Bay] and Atlantic Coastal Bays
27 Critical Area, including all waters and lands designated under Natural Resources Article,
28 §8-1807, Annotated Code of Maryland, consisting of waters of and lands under the
29 Chesapeake [Bay] and Atlantic Coastal Bays, and[its] their tributaries to the head of the
30 tide as indicated on the State wetland boundary maps, and all State and private wetlands
31 designated under Environment Article, Title 16, and all land and water areas within 1,000
32 feet beyond the landward boundaries of State or private wetlands, and the heads of tides
33 designated under Environment Article, Title 16, and the area beyond 1,000 feet
34 designated by local critical area programs to protect sensitive areas, except developed,
35 urban areas excluded by a local jurisdiction under a State-approved local critical area
36 program.

37
38 [(11)] (14) "Critical Area [buffer] Buffer" means [a naturally vegetated area or vegetated
39 area established or managed to protect aquatic, wetland, shoreline, and terrestrial
40 environments from manmade disturbances as defined in the State-approved local critical
41 area program, COMAR 27.01.01 AND 27.02.01] in accordance with Title 8, Subtitle 18
42 of the Natural Resources Article and Title 27 of the Code of Maryland Regulations, an
43 existing, naturally vegetated area, or an area established in vegetation and managed to
44 protect an aquatic, wetland, shoreline, and terrestrial environment from man-made
45 disturbance.

1 [(12)] (15) "Department" means the Department of the Environment.

2
3 [(13)] (16) "Direct discharge" means the concentrated release of storm water to tidal
4 waters or vegetated tidal wetlands from new development or redevelopment projects in
5 the Critical Area.

6
7 [(14)] (17) "Director" means the Director of the Water Management Administration.

8
9 [(15)] (18) "Dredging" means the removal or displacement by any means of soil, sand,
10 gravel, shells, or other material, whether or not of intrinsic value, from any State or
11 private tidal wetlands.

12
13 [(16)] (19) "Emergency condition" means a sudden, unforeseen occurrence caused by act
14 of God, natural disaster, or other similar natural event or catastrophe when the health,
15 safety, or welfare of the citizens of the State would be jeopardized by a delay in issuance
16 of a license or permit.

17
18 [(17)] (20) "Endangered species" means species of fish, wildlife, or plants designated by
19 regulation by the Secretary *of Natural Resources*. Endangered species includes an
20 endangered species designated under federal law.

21
22 (21) "Fetch" means the linear distance of open water where waves are generated by the
23 prevailing winds of a certain direction, speed, and duration.

24
25 [(18)] (22) Filling.

26
27 (a) "Filling" means the:

28 (i) Displacement of tidal water by the depositing into State or private
29 wetlands of soil, sand, gravel, shells, or other materials, including pilings, piers,
30 boathouses, deadweights, or riprap;

31 (ii) Artificial alteration of tidal water levels by any physical structure,
32 drainage ditch, or otherwise; or

33 (iii) Storm drainage projects which flow directly into tidal waters of the
34 State.

35
36 (b) "Filling" does not include:

37 (i) Drainage of agricultural land;

38 (ii) In-place replacement or repair of functional shore erosion control
39 structures using substantially similar materials and construction design;

40 (iii) Planting of wetlands vegetation when no grading or fill in State or
41 private wetlands is necessary; or

42 (iv) Marking channels and harbors and establishing aids to navigation if
43 approval has been granted by the United States Coast Guard.

44

1 [(19)] (23) "Fish" means finfish, crustaceans, mollusks, amphibians, and reptiles which
2 spend the majority of their life cycles in water and any part, egg, offspring, or dead body
3 of any of these species.
4

5 [(20)] (24) "Functional" means performing at least 85 percent of the action that a
6 structure was originally designed to perform.
7

8 [(21)] (25) "General wetland license" means written authorization from the Department
9 for certain activities described in this subtitle and previously approved by the Board of
10 Public Works.
11

12 [(22)] (26) "General wetland permit" means written authorization from the Department
13 for certain activities described in this subtitle.
14

15 (27) "Groin" means a shore protection structure built perpendicular to the shore to trap
16 sand and retard shoreline erosion.
17

18 [(23)] (28) "Historic property" means a district, site, building, structure, monument, or
19 object significant in the prehistory, history, upland and underwater archeology,
20 architecture, engineering, and culture of the State, including artifacts, records, and
21 remains related to a district, site, building, structure, or object.
22

23 [(24)] (29) "In kind" means having characteristics closely approximating original
24 characteristics, including those of a vegetated tidal wetland before that wetland was
25 adversely impacted, or replacement of a structure with a structure of similar materials and
26 dimensions.
27

28 [(25)] (30) "In the dry" means activities performed above or landward of the mean high
29 water line and all tidal wetland vegetation.
30

31 [(26)] (31) "Landward boundary of tidal wetlands" means the common boundary between
32 upland or nontidal wetlands, and State or private wetlands, as defined in this subtitle.
33

34 [(27)] (32) "License" means written authorization by the Board of Public Works under
35 Environment Article, §16-202, Annotated Code of Maryland, to dredge, fill, construct
36 structures, or conduct certain other activities involving State tidal wetlands which
37 conveys a limited property interest.
38

39 (33) "Living shorelines" or "Living shoreline" means a suite of stabilization and
40 erosion control measures that preserve the natural shoreline and are designed to
41 minimize shoreline erosion, maintain coastal processes, and provide aquatic habitat.
42 Measures must include marsh plantings and may include the use of sills, sand
43 containment structures, breakwaters or other natural components.
44

45 [(28)] (34) "Maintenance dredging" means the removal or displacement by any means of
46 soil, sand, gravel, shells, or other material, whether or not of intrinsic value, from any

1 State or private tidal wetlands, that restores a navigation channel, marina, or mooring
2 basin to depths confirmed after 1972.

3
4 [(29)] (35) "Marina" means a facility for the mooring, docking, or storing of more than
5 ten vessels on tidal navigable waters, including a commercial, noncommercial, or
6 community facility.

7
8 [(30)] (36) "Mean higher high water" means the average of the higher high water height
9 of each tidal day observed over the national tidal datum epoch, including a spring tide.

10
11 [(31)] (37) "Mean high water" means the average of all the high water levels observed
12 over the national tidal datum epoch.

13
14 [(32)] (38) "Mean high water line" means the line where the land meets the water surface
15 at the elevation of mean high water.

16
17 [(33)] (39) "Mean low water" means the average of all the low water levels observed over
18 the national tidal datum epoch.

19
20 [(34)] (40) "Mitigation" means the creation, restoration, or enhancement of tidal wetlands
21 lost or damaged due to dredging or filling.

22
23 [(35)] (41) "National tidal datum epoch" means the specific 19-year period adopted by
24 the National Ocean Service as the official time segment over which tidal observations are
25 taken and reduced to obtain mean values for tidal datums.

26
27 (42) "Non-structural shoreline stabilization project" means a suite of stabilization and
28 erosion control measures that preserve the natural shoreline and are designed to
29 minimize shoreline erosion, maintain coastal processes, and provide aquatic habitat.
30 Measures must include marsh plantings and may include the use of sills, sand
31 containment structures, breakwaters or other natural components.

32
33 [(36)] (43) "Nontidal wetland" means an area that is inundated or saturated by surface
34 water or ground water at a frequency and duration sufficient to support, and that under
35 normal circumstances does support, a prevalence of vegetation typically adapted for life
36 in saturated soil conditions, commonly known as hydrophytic vegetation, and is
37 determined according to the Corps of Engineers Wetlands Delineation Manual, 1987.

38
39 [(37)] (44) "Non-water-dependent structure or activity" means a temporary or permanent
40 structure or activity, which by reason of its intrinsic nature or operation does not require
41 location in or over State or private tidal wetlands.

42
43 [(38)] (45) "Out of kind" means having characteristics not closely approximating those of
44 a tidal wetland before that wetland was adversely impacted, or replacement of a structure
45 with a structure of dissimilar materials or dimensions.

1 [(39)] (46) "Permit" means written authorization by the Department to dredge, fill,
2 construct structures, or to conduct certain other activities involving private tidal wetlands.

3
4 [(40)] (47) "Person" means any natural person, partnership, joint stock company,
5 unincorporated association or society, *the federal government*, the State, any unit of the
6 State, a political subdivision, or other corporation of any type.

7
8 [(41)] (48) Pier.

9 (a) "Pier" means any fixed or floating pier, wharf, dock, walkway, or other
10 similar water-dependent structure constructed on or over State or private tidal wetlands
11 for the purpose of gaining access to the navigable waters of the State.

12 (b) "Pier" does not include a structure on pilings or stilts that was constructed
13 before December 2, 1985, landward of the tidal wetland boundaries.

14
15 [(42)] (49) "Private tidal wetlands" means:

16
17 (a) Land not considered State wetland bordering on or lying beneath tidal waters,
18 which is subject to regular or periodic tidal action and supports aquatic growth;

19 (b) Tidal wetlands transferred by the State by a valid lease, patent, or grant
20 confirmed by Article 5 of the Maryland Declaration of Rights, to the extent of the interest
21 transferred; and

22 (c) Tidal waters created by the excavation of upland unless conveyed to the State.

23
24 [(43)] (50) "Public informational hearing" means a meeting, open to the public, at which
25 the applicant or the Department presents information concerning a permit or license and
26 the Department receives oral and written comments concerning a decision to issue or
27 deny a permit or a license. A public informational hearing is not a contested case hearing
28 under State Government Article, §10-202(d), Annotated Code of Maryland.

29
30 [(44)] (51) "Regular or periodic tidal action" means the rise and fall of the sea produced
31 by the attraction of the sun and the moon uninfluenced by wind or any other
32 circumstances.

33
34 [(45)] (52) Repair.

35 (a) "Repair" means an activity that restores the scope, size, and design of a
36 functional structure to its previously authorized, undamaged condition.

37 (b) "Repair" does not include activities that change the size or scope of a project
38 beyond the original design and dredge or fill tidal wetlands that were not previously
39 impacted by the project.

40
41 [(46)] (53) "Restoration" means reestablishment of tidal wetlands on former tidal wetland
42 sites.

43
44 [(47)] (54) "Revetment" means an assemblage of stones or concrete, commonly known as
45 riprap, placed to prevent shore erosion, fortify a bulkhead, or stabilize an embankment.

1 [(48)] (55) "Riparian landowner" means a property owner whose land borders on tidal
2 wetlands or waters of the State.

3
4 [(49)] (56) "Riparian rights" means the rights of an owner of land bordering on tidal
5 wetlands or waters of the State as recognized by Environment Article, Title 16,
6 Annotated Code of Maryland.

7
8 (57) "Sand Containment Structure" means a low profile structure built perpendicular to
9 the shoreline to contain sand emplaced to establish a living shoreline project.

10
11 [(50)] (58) "Shallow water habitat" means aquatic habitat less than 3 feet in depth at
12 mean low water.

13
14 (59) "Sill" means a low profile offshore structure designed to retain sand and marsh on
15 its landward side and generally constructed parallel to the shoreline and with a crest at
16 or slightly above the elevation of mean high water.

17
18 [(51)] (60) "Species in need of conservation" means species of fish, wildlife, or plants
19 designated by regulation by the Secretary *of Natural Resources*.

20
21 [(52)] (61) "State tidal wetlands" means any land under the navigable waters of the State
22 below the mean high tide, affected by the regular rise and fall of the tide. Tidal wetlands
23 of this category which have been transferred by the State by a valid lease, patent, or grant
24 confirmed by Article 5 of the Maryland Declaration of Rights are considered private tidal
25 wetlands to the extent of the interest transferred.

26
27 [(53)] (62) "State water quality certification" means the certification issued by the
28 Department of the Environment under COMAR 26.08.02.

29
30 [(54)] (63) "Structures" means building or construction materials, or a combination of the
31 materials, assembled or joined together. "Structures" includes:

32 (a) Temporary or permanent fixed or floating piers, pilings, decks, walkways,
33 dwellings, buildings, boathouses, platforms, gazebos, or shelters for marine access,
34 navigation, working, eating, sleeping, or recreating; and

35 (b) Bulkheads, gabions, revetments, groins, breakwaters, jetties, beach beams, or
36 other devices for erosion control or protection of vessels.

37
38 [(55)] (64) Submerged Aquatic Vegetation.

39
40 (a) "Submerged aquatic vegetation (SAV)" means a vascular hydrophyte, which
41 is rooted or unrooted, that lies entirely beneath the surface of the water except for the
42 flowering parts of some species. Examples include *Zannichellia palustris*, *Ruppia* sp.,
43 and *Potamogeton* sp.

44 (b) "Submerged aquatic vegetation" does not include algae.
45

1 [(56)] (65) "Threatened species" means species of fish, wildlife, or plants designated by
2 regulation by the Secretary *of Natural Resources*.

3
4 [(57)] (66) "Tidal wetlands" means all State and private tidal wetlands, marshes,
5 submerged aquatic vegetation, lands, and open water affected by the daily and periodic
6 rise and fall of the tide within the Chesapeake Bay and its tributaries, the coastal bays
7 adjacent to Maryland's coastal barrier islands, and the Atlantic Ocean to a distance of 3
8 miles offshore of the low water mark.

9
10 [(58)] (67) "Tidal wetland boundary map" means a map or aerial photograph on a scale of
11 1 inch to 200 feet that delineates the landward boundary of tidal wetlands and is adopted
12 by the Department.

13
14 [(59)] (68) "Unified soil classification system" means a classification system used to
15 classify sedimentary materials by grain size into gravel, silt, and clays. It is the principal
16 classification system used by engineers, and its boundaries correspond to U. S. standard
17 sieve sizes.

18
19 [(60)] (69) "Upland" means any area that does not qualify as a tidal or nontidal wetland.

20
21 [(61)] (70) "Utility line" means an underground or overhead transmission line, conduit
22 pipe, cable, or wire for the conveyance of public or private water, sewage, natural gas, or
23 petroleum, or the transmission of electricity or telecommunications.

24
25 [(62)] (71) "Water dependent" means a temporary or permanent structure or activity,
26 which by reason of its intrinsic nature or operation, requires location in or over State or
27 private wetlands.

28
29
30 **26.24.04.**

31
32 **.01 Shore Erosion Control.**

33
34 A. In addition to the requirements of COMAR 26.24.02.02, an applicant for a shore
35 erosion control project shall submit the following information at the time of application:

36
37 (1) An alternatives analysis demonstrating that the relocation of any threatened
38 structures will not eliminate the need for the shore erosion control project.

39
40 (2) An 8-1/2-inch by 11-inch plan of the proposed project showing:

- 41 (a) Location,
42 (b) Land ownership,
43 (c) Existing and proposed contours,
44 (d) Existing and proposed structures,
45 (e) Buildings,
46 (f) Roads,

- 1 (g) Drainage features,
- 2 (h) Adjacent shoreline features,
- 3 (i) Equipment storage areas;
- 4 (j) Methods to control upland runoff and erosion, if applicable, [and]
- 5 (k) Type of materials to be used in construction;
- 6 (l) Near-shore bathymetry; and
- 7 (m) An approved waiver form if the project qualifies for structural shoreline
- 8 stabilization.

- 9
- 10 (2) Photographs of the project site and the adjoining shoreline; [and]
- 11 (3) Alternatives analysis, including the no action alternative and the justification
- 12 for rejecting environmentally preferable alternatives under §[C(5)] D of this regulation;
- 13 and

14 (4) (a) A proposed Buffer Management Plan for the Critical Area Buffer from
15 tidal waters, tidal wetlands, or tributary streams including all appropriate written
16 descriptions, specifications, protective agreements, and bonding instruments or other
17 financial sureties necessary to ensure proper implementation of the Plan and appropriate
18 long-term protection and maintenance of all vegetation; and

19 (b) Evidence of delivery of the proposed Buffer Management Plan and the
20 associated shoreline erosion control plans, including all supporting documentation, to
21 the State Critical Area Commission and to the local Critical Area program.

22

23 B. Based on project size and scope, environmental sensitivity of the project site, and
24 potential adverse impacts to tidal wetlands, the Department may, with notice to the
25 applicant by telephone, letter, or meeting, require information in addition to §A of this
26 regulation. The Department recommends that an applicant consult with the Department
27 before developing and submitting the following information:

- 28 (1) A design report that includes:
 - 29 (a) A foundation investigation,
 - 30 (b) A structural analysis,
 - 31 (c) Structural properties of materials,
 - 32 (d) Design life expectancy of the project and estimated benefits derived;
 - 33
- 34 (2) A description of the method and sequence of construction that includes:
 - 35 (a) Construction dates and time required, including estimated beginning and
 - 36 completion dates,
 - 37 (b) Equipment to be used,
 - 38 (c) Proposed access to site,
 - 39 (d) Foundation excavations,
 - 40 (e) Construction steps,
 - 41 (f) Means for diverting water away from the project during construction,
 - 42 and
 - 43 (g) Means for controlling the dewatering discharges.
- 44
- 45 (3) Specific references used by the designer; and
- 46

1 (4) Predicted impact of the project on adjacent properties.
2
3

4 C. Design Guidelines.
5

6 (1) Specifications shall be written to ensure that design criteria, with regard to the
7 quality of the materials and methods of construction, will be met or exceeded.
8

9 (2) A shore erosion control project that includes the reclamation of lost upland
10 shall meet the requirements of COMAR 26.24.03.06C- F.
11

12 (3) The design shall include measures to avoid and minimize impacts to *wildlife*,
13 fish, and plant habitat. Projects may not be authorized when:

14 (a) The Department has no evidence of erosion and the applicant is unable
15 to document a claim of erosion;

16 (b) Existing tidal wetlands are adequately serving as a buffer against
17 erosion;

18 (c) Adjacent properties may be adversely affected by the proposed method
19 of erosion control;

20 (d) Navigation may be adversely affected by the project and the applicant
21 has not made provisions to offset these impacts;

22 (e) Threatened or endangered species, species in need of conservation, or
23 significant historic or archaeological resources may be adversely affected by the project;
24 [or]

25 (f) Natural oyster bars or private oyster leases may be adversely affected by
26 the project; *or*

27 (g) ***For shore erosion control projects, the Department has not received a***
28 ***copy of the Buffer Management Plan approved by the local Critical Area program.***
29

30 (4) Upon receipt of the locally approved Buffer Management Plan, the applicant
31 shall provide a copy of the Plan to the State Critical Area Commission.
32

33 (5) (a) Mitigation planting required by an approved Buffer Management Plan
34 shall occur immediately after the approved shore erosion control project has been
35 completed or, if project completion occurs during a time of year that is unseasonable for
36 planting, during the next planting season.

37 (b) If project completion occurs during a time of year that is unseasonable
38 for planting, the Buffer Management Plan shall include plans for stabilization of the
39 Critical Area Buffer until mitigation planting is complete.
40

41 [(4)] (6) Encroachment into State tidal wetlands is limited to that which is
42 structurally necessary. Bulkheads that encroach into tidal wetlands in excess of 3 feet
43 beyond the mean high water line are prohibited, unless a design report verifies the
44 necessity for the encroachment, and that other structural and nonstructural alternatives
45 have been considered and determined to be impractical. The design report shall
46 distinguish between shore erosion and bank stabilization requirements.

1
2 [(5) Erosion control measures requiring a tidal wetlands permit or license shall be
3 considered in the following order of preference:

- 4 (a) No action and relocation of structure;
5 (b) Nonstructural shoreline stabilization, including beach nourishment,
6 marsh creation, and other measures that encourage the preservation of the natural
7 environment;
8 (c) Shoreline revetments, breakwaters, groins, and similar structures
9 designed to ensure the establishment and long-term viability of nonstructural shoreline
10 stabilization projects;
11 (d) Shoreline revetments;
12 (e) Breakwaters;
13 (f) Groins; and
14 (g) Bulkheads.

15
16 [(6) Structural shore erosion control projects that employ jetties, groins,
17 breakwaters, or other offshore structures shall be designed to allow natural littoral
18 movement of sand along the shoreline. Projects that induce erosion or undesirable
19 shoaling in adjacent areas are prohibited.

20 (7) Structural control measures may be allowed if they are determined to be
21 appropriate for the specific site. The Department shall consider the following factors:

- 22 (a) High energy shoreline -- severely eroding shorelines where nonstructural
23 methods are impractical;
24 (b) Inaccessible shoreline -- landform characteristics such as very steep,
25 high banks, and nearshore shallow water that prohibits both land or barge access
26 necessary for the transportation of construction materials to the site; and
27 (c) Commercial vessel berthing -- commercial water-dependent facilities
28 when loading and unloading operations require a bulkheaded shoreline.

29 (8) Structural erosion control measures shall be designed to use materials such as
30 stone or broken concrete, wood, metal, plastic, or other similar materials that are:

- 31 (a) Of adequate size, weight, and strength to function as intended;
32 (b) Free of protruding objects; and
33 (c) Selected because they minimize impacts to water quality and plant, fish,
34 and wildlife habitat.

35 (9) Backfill material shall be free of materials such as junk, metal, tree stumps,
36 logs, or other unsuitable materials.

37 (10) Structural shore erosion control projects shall be designed to prevent damage
38 due to scour.]

39
40 D. Nonstructural Shoreline Stabilization Measures.

41
42 (1) Nonstructural shoreline stabilization measures, including beach nourishment,
43 marsh creation, and other measures that encourage the preservation of the natural
44 environment, shall be used to control erosion, except in the following areas:
45

1 (a) Areas identified by the Department, in coordination with the Maryland
2 Geological Survey, and shown on maps approved by the Department as appropriate for
3 structural shoreline stabilization measures; and

4 (b) Areas where the applicant has obtained a waiver from the Department
5 by demonstrating, to the Department's satisfaction, that nonstructural shoreline
6 stabilization measures are not feasible for the site.

7
8 E. Structural Shoreline Stabilization Maps.

9
10 (1) Maps of areas designated by Department as being appropriate for structural
11 shoreline stabilization measures shall be developed and maintained by the Department
12 and available for public review.

13 (2) The Department shall consider the following criteria to develop the structural
14 shoreline stabilization maps:

15
16 (a) Lack of immediately adjacent natural shoreline;

17 (b) Proximity to navigation channels;

18 (c) High energy shorelines, where nonstructural methods are impractical
19 due to severely eroding shorelines; and

20 (d) Commercial vessel berthing, where water-dependent facilities require a
21 bulkheaded shoreline for loading and unloading operations

22
23 F. Nonstructural Shoreline Stabilization Waiver Process

24
25 (1) An applicant may obtain a waiver from the requirement to use nonstructural
26 shoreline stabilization measures by demonstrating, to the Department's satisfaction, that
27 nonstructural shoreline stabilization measures are not feasible for the applicant's
28 property.

29 (2) An applicant shall apply for a waiver using a form provided by the
30 Department;

31 (3) An applicant must complete the nonstructural shoreline stabilization waiver
32 process prior to submitting an application to obtain a Tidal Wetlands License or Tidal
33 Wetlands Permit

34 (4) In evaluating an applicant's request for a waiver, the Department shall
35 consider the following criteria:

36
37 (a) Presence of a waterway width inadequate to support a nonstructural
38 shoreline stabilization measure;

39 (b) Lack of suitable bottom elevation and slope at mean low water for
40 sustaining a nonstructural shoreline stabilization measure;

41 (c) Lack of suitable bottom substrate to support a nonstructural
42 stabilization measure;

43 (d) Expansive Fetch;

44 (e) Bank elevation and orientation that would prevent grading and
45 successful establishment of vegetation;

46 (f) Areas of excessive erosion;

- 1 (g) Areas subject to heavy tides;
2 (h) Other physical constraints that would impede or prevent successful
3 establishment of a nonstructural shoreline stabilization measure; or
4 (i) Other environmental factors including plant, fish and wildlife habitat or
5 riparian Buffers that would be adversely affected by the proposed nonstructural shoreline
6 stabilization practice and would be protected by a structural practice.

7
8 G Order of Preference for Structural Erosion Control Measures.

9
10 (1) After an applicant has demonstrated to the Department's satisfaction that a
11 nonstructural shoreline stabilization measure is not feasible, structural shoreline
12 stabilization measures shall be considered in the following order of preference:

- 13
14 (a) Shoreline revetments;
15 (b) Breakwaters;
16 (c) Groins or jetties; and
17 (d) Similar structures acceptable to the Department.

18
19 F. Design of Structural Erosion Control Measures.

20
21 (1) Structural shore erosion control projects that employ jetties, groins,
22 breakwaters, or other offshore structures shall be designed to:

23
24 (a) Allow natural littoral movement of sand along the shoreline. Projects
25 that induce erosion or undesirable shoaling in adjacent areas shall be prohibited
26 (b) Use materials such as stone or broken concrete, wood, metal, plastic, or
27 other similar materials that are:

28
29 (i) Of adequate size, weight, and strength to function as intended;
30 (ii) Free of protruding objects, debris, and contaminants;
31 (iii) Selected because they minimize impacts to water quality and plant,
32 fish, and wildlife habitat;

33
34 (c) Use backfill material free of materials such as litter, refuse, junk, metal,
35 tree stumps, logs, or other unsuitable materials;
36 (d) Prevent damage due to scour; and
37 (e) Minimize grading and other impacts on adjacent riparian habitat.