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APPENDIX A

GLOSSARY

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1 **APPENDIX A**

2
3 **GLOSSARY**

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5
6 **anadromous fish** – fish that migrate up river from the sea to breed in fresh water.

7
8 **anthropogenic** – coming from human sources, relating to the effect of man on nature.

9
10 **aphotic zone** – zone where the levels of light entering through the surface are not sufficient for
11 photosynthesis or for animal response.

12
13 **archaeological interest** – capable of providing scientific or humanistic understanding of past
14 human behavior, cultural adaptation, and related topics through the application of scientific or
15 scholarly techniques, such as controlled observation, contextual measurement, controlled
16 collection, analysis, interpretation, and explanation.

17
18 **archaeological resource** – any material remains of human life or activities that are at least
19 50 years of age and that are of archaeological interest.

20
21 **aromatic** – applied to a class of organic compounds containing benzene rings or benzenoid
22 structures.

23
24 **attainment area** – an area that is classified by the U.S. Environmental Protection Agency
25 (USEPA) as meeting the primary or secondary ambient air quality standards for a particular air
26 pollutant based on monitored data.

27
28 **barrel** – equal to 42 U.S. gallons or 158.99 liters.

29
30 **benthic** – bottom dwelling, associated with (in or on) the seafloor.

31
32 **benthos** – organisms that dwell in or on the seafloor, the organisms living in or associated with
33 the benthic (or bottom) environment.

34
35 **biological opinion** – an appraisal from either the U.S. Fish and Wildlife Service (USFWS) or the
36 National Marine Fisheries Service (NMFS) evaluating the impact of a proposed Federal action, if
37 it is likely to jeopardize the continued existence of a listed species or result in the destruction or
38 adverse modification of critical habitat, as required by Section 7 of the Endangered Species Act.

39
40 **bivalves** – general term for two-shelled mollusks (clams, oysters, scallops, mussels).

41
42 **carrying capacity** – the maximum number or weight of individuals that can exist in a given
43 habitat; an appraisal from either USFWS or NMFS evaluating the impact of a proposed activity
44 on endangered and threatened species.

1 **cetacean** – any of an order (Cetacea) of aquatic mostly marine mammals including the whales,
2 dolphins, porpoises, and related forms with a large head, fusiform nearly hairless body,
3 paddle-shaped forelimbs, vestigial concealed hind limbs, and horizontal flukes (tails).

4
5 **chemosynthetic** – organisms that obtain their energy from the oxidation of various inorganic
6 compounds rather than from light (photosynthesis).

7
8 **coastal wetlands** – forested and nonforested habitats, mangroves, and all marsh islands that are
9 exposed to coastal waters. Included in forested wetlands are hardwood hammocks,
10 cypress-tupelogum swamps, and fluvial vegetation/bottomland hardwoods. Nonforested
11 wetlands include fresh, brackish, and salt marshes. These areas directly contribute to the high
12 biological productivity of coastal water by input of detritus and nutrients, by providing nursery
13 and feeding areas for shellfish and finfish, by serving as habitat for many birds and other
14 animals, and by providing waterfowl hunting and fur trapping.

15
16 **coastal zone** – the coastal waters (including the lands therein and thereunder) and the adjacent
17 shore lands (including the waters therein and thereunder) strongly influenced by each other and
18 in proximity to the shorelines of the several coastal States; and including islands, transitional and
19 intertidal areas, salt marshes, wetlands, and beaches. The zone extends seaward to the outer limit
20 of the United States territorial sea. The zone extends inland from the shorelines only the extent
21 necessary to control shore lands, the uses of which have a direct and significant impact on the
22 coastal waters. Excluded from the coastal zone are lands the use of which are by law subject to
23 the discretion of or which are held in trust by the Federal Government, its officers, or agents.
24 (The State land and water area officially designated by the State as “coastal zone” in its State
25 coastal zone program as approved by the U.S. Department of Commerce under the Coastal Zone
26 Management Act [CZMA].)

27
28 **coastal zone consistency review** – State review of direct Federal activities or private individual
29 activities requiring Federal licenses or permits, and outer continental shelf (OCS) plans pursuant
30 to the CZMA to determine if the activity is consistent with the enforceable policies of the State’s
31 federally approved Coastal Zone Management (CZM) program.

32
33 **continental shelf** – a broad, gently sloping, shallow feature extending from the shore to the
34 continental slope, generally considered to exist to the depth of 200 m (656 ft); that part of the
35 continental margin between the continental shelf and the continental rise (or oceanic trench).

36
37 **continental slope** – a relatively steep, narrow feature paralleling the continental shelf; the region
38 in which the steepest descent to the ocean bottom occurs.

39
40 **contingency plan** – a plan for possible offshore emergencies prepared and submitted by the oil
41 or gas operator as part of the plan of development and production, and which may be required for
42 part of the plan of exploration.

- 1 **critical habitat** – a designated area that is essential to the conservation of an endangered or
2 threatened species that may require special management considerations or protection.
3
- 4 **crude oil** – petroleum in its natural state as it emerges from a well, or after it passes through a
5 gas-oil separator but before refining or distillation.
6
- 7 **crustaceans** – any aquatic invertebrate with jointed legs, such as crabs, shrimp, lobster,
8 barnacles, amphipods, isopods, etc.; primarily an aquatic group.
9
- 10 **deferral** – action taken by the Secretary of the Interior at the time of the area identification to
11 remove certain areas/blocks from a lease offering.
12
- 13 **delineation well** – an exploratory well drilled to define the areal extent of a field. Also referred
14 to as an “expendable well.”
15
- 16 **development** – activities that take place following discovery of minerals in paying quantities,
17 including geophysical activity, drilling, platform construction, and operation of all onshore
18 support facilities, and that are for the purpose of ultimately producing the minerals discovered.
19
- 20 **development and production plan (DPP)** – a plan describing the specific work to be performed
21 on an offshore lease, including all development and production activities that the lessee proposes
22 to undertake during the time period covered by the plan and all actions to be undertaken up to
23 and including the commencement of sustained production. The plan also includes descriptions
24 of facilities and operations to be used, well locations, current geological and geophysical
25 information, environmental safeguards, safety standards and features, time schedules, and other
26 relevant information. All lease operators are required to formulate and obtain approval of such
27 plans by the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE)
28 before development and production activities may begin; requirements for submittal of DPP are
29 wholly identified in 30 CFR 250.34.
30
- 31 **development well** – a well drilled into a known producing formation in a previously discovered
32 field, to be distinguished from a wildcat, exploratory, or offset well.
33
- 34 **dilution** – the reduction in the concentration of dissolved or suspended substances by mixing
35 with water.
36
- 37 **discharge** – something that is emitted; flow rate of a fluid at a given instant expressed as volume
38 per unit of time.
39
- 40 **dispersion** – a distribution of finely divided particles in a medium.
41
- 42 **drillship** – a self-propelled, self-contained vessel equipped with a derrick amidships for drilling
43 wells in deep water.
44

- 1 **drilling mud** – a special mixture of clay, water, or refined oil, and chemical additives pumped
2 downhole through the drill pipe and drill bit. The mud cools the rapidly rotating bit, lubricates
3 the drill pipe as it turns in the wellbore, carries rock cuttings to the surface, serves to keep the
4 hole from crumbling or collapsing, and provides the weight or hydrostatic head to prevent
5 extraneous fluids from entering the wellbore and to control downhole pressures that may be
6 encountered (drilling fluid).
7
- 8 **effluent** – the liquid waste of sewage and industrial processing.
9
- 10 **emission offset** – emission reductions obtained from facilities, either onshore or offshore, other
11 than the facility or facilities covered by the proposed exploration plan or development and
12 production plan. The emission reductions achieved must be sufficient so that there will be no net
13 increase in emissions for the area.
14
- 15 **endangered and threatened species (endangered species)** – any species that is in danger of
16 extinction throughout all or a significant portion of its range and has been officially listed by the
17 appropriate Federal or State agency; a species is determined to be endangered (or threatened)
18 because of any of the following factors: (1) the present or threatened destruction, modification,
19 or curtailment of its habitat or range; (2) over utilization for commercial, sporting, scientific, or
20 educational purposes; (3) disease or predation; (4) the inadequacy of existing regulatory
21 mechanisms; or (5) other natural or man-made factors affecting its continued existence.
22
- 23 **environmental assessment** – a concise public document required by the National Environmental
24 Policy Act of 1969 (NEPA). In the document, a Federal agency proposing (or reviewing) an
25 action provides evidence and analysis for determining whether it must prepare an environmental
26 impact statement (EIS) or whether it finds there is no significant impact (i.e., Finding of No
27 Significant Impact [FONSI]).
28
- 29 **environmental effect** – a measurable alteration or change in environmental conditions.
30
- 31 **environmental impact statement (EIS)** – a statement required by the NEPA or similar State
32 law in relation to any major action significantly affecting the environment; a NEPA document.
33
- 34 **essential habitat** – specific areas crucial to the conservation of a species that may necessitate
35 special considerations.
36
- 37 **essential fish habitat (EFH)** – those waters and substrate necessary to fish for spawning,
38 breeding, feeding, or growth to maturity. This includes areas that are currently or historically
39 used by fish, or that have substrate such as sediment, hard bottom, bottom structures, or
40 associated biological communities required to support a sustainable fishery.
41
- 42 **estuary** – semi-enclosed coastal body of water that has a free connection with the open sea and
43 within which seawater is measurably diluted with freshwater.
44

1 **Exclusive Economic Zone (EEZ)** – the maritime region adjacent to the territorial sea, extending
2 200 nautical miles from the baseline of the territorial sea, in which the United States has
3 exclusive rights and jurisdiction over living and nonliving natural resources.

4
5 **exploration** – the process of searching for minerals. Exploration activities include:
6 (1) geophysical surveys where magnetic, gravity, seismic, or other systems are used to detect or
7 infer the presence of such minerals; and (2) any drilling, except development drilling, whether on
8 or off known geological structures. Exploration also includes the drilling of a well in which a
9 discovery of oil or natural gas in paying quantities is made, and the drilling, after such a
10 discovery, of any additional well that is needed to delineate a reservoir and to enable the lessee to
11 determine whether to proceed with development and production.

12
13 **exploration plan (EP)** – a plan submitted by a lessee (30 CFR 250.33) that identifies all the
14 potential hydrocarbon accumulations and wells that the lessee proposes to drill to evaluate the
15 accumulations within the lease or unit area covered by the plan. All lease operators are required
16 to obtain approval of such a plan by a BOEMRE Regional Supervisor before exploration
17 activities may commence.

18
19 **exploratory well** – a well drilled in unproven or semi-proven territory for the purpose of
20 ascertaining the presence underground of a commercially producible deposit of petroleum or
21 natural gas.

22
23 **fault** – a fracture in the earth’s crust accompanied by a displacement of one side of the fracture
24 with respect to the other.

25
26 **fauna** – the animals of a particular region or time.

27
28 **fixed or bottom founded** – permanently or temporarily attached to the seafloor.

29
30 **flyway** – an established air route of migratory birds.

31
32 **formation** – a bed or deposit sufficiently homogeneous to be distinctive as a unit. Each different
33 formation is given a name, frequently as a result of the study of the formation outcrop at the
34 surface and sometimes based on fossils found in the formation.

35
36 **fugitive emissions** – emission into the atmosphere that could not reasonably pass through a
37 stack, chimney, vent or other functionally equivalent opening.

38
39 **geochemical** – of or relating to the science dealing with the chemical composition of and the
40 actual or possible chemical changes in the crust of the earth.

41
42 **geologic hazard** – a feature or condition that, if unmitigated, may seriously jeopardize offshore
43 oil and gas exploration and development activities. Mitigation may necessitate special
44 engineering procedures or relocation of a well.

- 1 **geophysical** – of or relating to the physics of the earth, especially the measurement and
2 interpretation of geophysical properties of the rocks in an area.
3
- 4 **geophysical data** – facts, statistics, or samples that have not been analyzed or processed,
5 pertaining to gravity, magnetic, seismic, or other surveys/systems.
6
- 7 **geophysical survey** – the exploration of an area during which geophysical properties and
8 relationships unique to the area are measured by one or more geophysical methods.
9
- 10 **habitat** – a specific type of place that is occupied by an organism, a population, or a community;
11 a specific type of place defined by its physical or biological environment that is occupied by an
12 organism, a population, or a community.
13
- 14 **harassment** – an intentional or negligent act or omission that creates the likelihood of injury to
15 wildlife by annoying it to such an extent as to significantly disrupt normal behavioral patterns
16 that include, but are not limited to, feeding or sheltering.
17
- 18 **haulout area** – specific locations where pinnipeds come ashore and concentrate in numbers to
19 rest, breed, and/or bear young.
20
- 21 **herbivores** – animals whose diet consists of plant material.
22
- 23 **hydrocarbon** – any of a large class of organic compounds containing primarily carbon and
24 hydrogen; comprising paraffins, olefins, members of the acetylene series, alicyclic hydrocarbons,
25 and aromatic hydrocarbons; and occurring, in many cases, in petroleum, natural gas, coal, and
26 bitumens.
27
- 28 **hypothermia** – subnormal temperature of the body, usually due to excessive heat loss.
29
- 30 **hypoxia** – depressed levels of dissolved oxygen in water, usually resulting in decreased
31 metabolism.
32
- 33 **incidental take** – take of a threatened or endangered fish or wildlife species that results from,
34 but is not the purpose of, carrying out an otherwise lawful activity conducted by a Federal
35 agency or applicant (see take).
36
- 37 **indirect effects** – effects caused by activities that are stimulated by an action but not directly
38 related to it.
39
- 40 **industry infrastructure** – the facilities associated with oil and gas development (e.g., refineries,
41 gas processing plants, etc.).
42
- 43 **information to lessees** – information included in the Notice of Sale to alert lessees and operators
44 of special concerns in or near a sale area of regulatory provisions enforceable by Federal or State
45 agencies.
46

- 1 **jack-up rig** – a barge-like floating platform with legs at each corner that can be lowered to the
2 sea bottom to raise the platform above the water; a drilling platform with retractable legs that can
3 be lowered to the sea bottom to raise the platform above the water.
4
- 5 **landfall** – the site at which a marine pipeline comes to shore.
6
- 7 **lay barge** – a shallow-draft, barge-like vessel used in the construction and laying of underwater
8 pipelines.
9
- 10 **lighter** – a barge or small tanker used to move cargo from a large ship to port; also, to transport
11 by lighter.
12
- 13 **macroinvertebrate** – animals such as worms, clams, or crabs that are large enough to be seen
14 without the aid of a microscope.
15
- 16 **mariculture** – the breeding or growth of marine animals and plants to increase their stocks.
17
- 18 **marine sanctuary** – area protected under the Marine Protection, Research, and Sanctuaries Act
19 of 1972.
20
- 21 **marshes** – persistent, emergent nonforested wetlands characterized by vegetation consisting
22 predominantly of cordgrasses, rushes, and cattails.
23
- 24 **microcrustacean** – any relatively small crustacean (may range from microscopic to slightly over
25 one centimeter in size) including organisms such as beach hoppers (amphipods), copepods,
26 ostracods, isopods, and mysids.
27
- 28 **military warning area** – an area established by the U.S. Department of Defense within which
29 the public is warned that military activities take place.
30
- 31 **minerals** – as used in this document, minerals include oil, gas, sulfur, and associated resources,
32 and all other minerals authorized by an Act of Congress to be produced from public lands, as
33 defined in Section 103 of the Federal Land Policy and Management Act of 1976.
34
- 35 **mollusks** – animal phylum characterized by soft body parts including clams, mussels, snails,
36 squid, and octopus.
37
- 38 **mud** – the liquid circulated through the wellbore during rotary drilling operations. In addition to
39 its function of bringing cuttings to the surface, drilling mud cools and lubricates the bit and drill
40 stem, protects against blowouts by holding back subsurface pressures, and deposits a mud cake
41 on the wall of the borehole to prevent loss of fluids to the formations; also called drilling mud or
42 drilling fluid; also a sediment designation composed of silt and clay-sized particles.
43
- 44 **mysids** – small shrimp-like organisms, also known as opossum shrimp due to their method of
45 egg incubation.
46

- 1 **natural gas** – hydrocarbons that are in a gaseous phase under atmospheric conditions of
2 temperature and pressure.
3
- 4 **nearshore waters** – offshore open waters that extend from the shoreline out to the limit of the
5 territorial seas (12 nautical miles).
6
- 7 **nonattainment area** – an area that is shown by monitoring data or air quality modeling
8 calculations to exceed primary or secondary ambient air quality standards established by the
9 USEPA.
10
- 11 **offloading** – another name for unloading; offloading refers more specifically to liquid cargo,
12 crude oil, and refined products.
13
- 14 **oil spill contingency plan** – a plan submitted by the lease or unit operator along with or prior to
15 a submission of a plan of exploration or a development/production plan that details provisions
16 for fully defined specific actions to be taken following discovery and notification of an oil spill
17 occurrence.
18
- 19 **operational discharge** – a release of oil that is part of the routine operation of a function.
20
- 21 **operator** – the person or company engaged in the business of drilling for, producing, or
22 processing oil, gas, or other minerals and recognized by BOEMRE as the official contact and
23 responsible for the lease activities or operations.
24
- 25 **organic matter** – material derived from living plant or animal organisms.
26
- 27 **outer continental shelf (OCS)** – all submerged lands that comprise the continental margin
28 adjacent to the United States and seaward of State offshore lands.
29
- 30 **petroleum** – an oily, flammable, bituminous liquid that occurs in many places in the upper strata
31 of the earth, either in seepages or in reservoirs; essentially a complex mixture of hydrocarbons of
32 different types with small amounts of other substances; any of various substances (as natural gas
33 or shale oil) similar in composition to petroleum.
34
- 35 **phytoplankton** – plant (photosynthetic) plankton; microscopic, freefloating, photosynthetic
36 organisms that drift passively in the water.
37
- 38 **pinniped** – any of a suborder (Pinnipedia) of aquatic carnivorous mammals (e.g., seals, sea lions,
39 sea otters, walruses) with all four limbs modified into flippers.
40
- 41 **plankton** – passively floating or weakly motile aquatic plants and animals.
42
- 43 **planning area** – a subdivision of an offshore area used as the initial basis for considering blocks
44 to be offered for lease in the U.S. Department of the Interior’s areawide offshore oil and gas
45 leasing program.
46

- 1 **platform** – a steel, concrete, or gravel structure from which offshore development wells are
2 drilled.
3
- 4 **postlease** – any activity on a block or blocks after the issuance of a lease on said block or blocks.
5
- 6 **potential impact (effect)** – the range of alterations or changes to environmental conditions that
7 could be caused by an action.
8
- 9 **primary production** – production of carbon by a plant through photosynthesis over a given
10 period of time; oil and gas production that occurs from the reservoir energy inherent in the
11 formation.
12
- 13 **produced water** – total water produced from the oil and gas extraction process; the water may
14 be discharged after treatment or reinjected; production water or production brine.
15
- 16 **production** – activities that take place after the successful completion, by any means, of the
17 removal of minerals, including such removal, field operations, transfer of minerals to shore,
18 operation monitoring, maintenance, and workover drilling.
19
- 20 **production well** – a well that is drilled for the purpose of producing oil or gas reserves; it is
21 sometimes termed a development well.
22
- 23 **prospect** – an untested geologic feature having the potential for trapping and accumulating
24 hydrocarbons.
25
- 26 **recoverable reserves** – portion of the identified oil or gas resources that can be economically
27 extracted under current technological constraints.
28
- 29 **recoverable resource estimate** – an assessment of oil and gas resources that takes into account
30 the fact that physical and technological constraints dictate that only a portion of resources or
31 reserves can be brought to the surface.
32
- 33 **refining** – fractional distillation, usually followed by other processing (e.g., cracking).
34
- 35 **reserves** – portion of the identified oil or gas resource that can be economically extracted.
36
- 37 **reservoir** – a subsurface, porous, permeable rock body in which hydrocarbons have
38 accumulated.
39
- 40 **resources** – concentrations of naturally occurring solid, liquid, or gaseous materials in or on the
41 earth's crust some part of which is currently or potentially extractable. These include both
42 identified and undiscovered resources.
43
- 44 **rig** – a structure used for drilling an oil or gas well.
45

- 1 **right-of-way** – a legal right of passage, an easement; the specific area or route for which
2 permission has been granted to place a pipeline, (and) ancillary facilities, and for normal
3 maintenance thereafter.
4
- 5 **rookery** – the nesting or breeding grounds of gregarious (i.e., social) birds or mammals; also a
6 colony of such birds or mammals.
7
- 8 **sale area** – the geographical area of the OCS being offered for lease for the exploration,
9 development, and production of mineral resources.
10
- 11 **scoping** – the process prior to EIS preparation to determine the range and significance of issues
12 to be addressed in the EIS for each proposed major Federal action.
13
- 14 **seagrass beds** – more or less continuous mats of submerged, rooted marine flowering vascular
15 plants occurring in shallow tropical and temperate waters. Seagrass beds provide habitat,
16 including breeding and feeding grounds, for adults and/or juveniles of many of the economically
17 important shellfish and finfish.
18
- 19 **sediment** – material that has been transported and deposited by water, wind, glacier,
20 precipitation, or gravity; a mass of deposited material.
21
- 22 **seeps (hydrocarbon)** – gas or oil that reaches the surface along bedding planes, fractures,
23 unconformities, or fault planes through connected porous rocks.
24
- 25 **seismic** – pertaining to, characteristic of, or produced by earthquakes or earth vibration; having
26 to do with elastic waves in the earth; also geophysical when applied to surveys.
27
- 28 **semisubmersible** – a floating offshore drilling structure that has hulls submerged in the water
29 but not resting on the seafloor.
30
- 31 **shunting** – a method used in offshore oil and gas drilling activities where expended drill cuttings
32 and fluids are discharged near the ocean seafloor rather than at the surface, as in the case of
33 normal offshore drilling operations.
34
- 35 **significant archaeological resource** – those archaeological resources that meet the criteria of
36 significance for eligibility to the *National Register of Historic Places* as defined in 36 CFR 60.4
37 or its successor.
38
- 39 **stipulations** – specific measures imposed upon a lessee that apply to a lease. Stipulations are
40 attached as a provision of a lease; they may apply to some or all tracts in a sale. For example, a
41 stipulation might limit drilling to a certain time period of the year or certain areas.
42

- 1 **subsistence uses** – the customary and traditional uses by rural residents of wild, renewable
2 resources for direct personal or family consumption as food, shelter, fuel, clothing, tools, or
3 transportation; for making and selling of handcraft articles out of nonedible byproducts of fish
4 and wildlife resources taken for personal or family consumption; for barter, or sharing for
5 personal or family consumption; and for customary trade.
6
- 7 **supply boat** – a vessel that ferries food, water, fuel, and drilling supplies and equipment to a rig
8 and returns to land with refuse that cannot be disposed of at sea.
9
- 10 **take** – to harass, harm, pursue, hunt, shoot, wound, kill, capture, or collect a threatened or
11 endangered fish or wildlife species, or attempt to engage in any such conduct. (Harm includes
12 habitat modification that impairs behavioral patterns, and harass includes actions that create the
13 likelihood of injury to an extent that normal behavior patterns are disrupted.)
14
- 15 **threatened species** – any species that is likely to become an endangered species within the
16 foreseeable future throughout all or a significant portion of its range, and which has been
17 officially listed by the appropriate Federal agency. Criteria for determination of threatened status
18 can be found under “endangered species.”
19
- 20 **trawl** – a large, tapered fishing net of flattened, conical shape that is typically towed along the
21 sea bottom.
22
- 23 **trophic** – trophic levels refer to the hierarchy of organisms from photosynthetic plants to
24 carnivores, such as man; feeding trophic levels refer to the hierarchy of organisms from
25 photosynthetic plants to carnivores in which organisms at one level are fed upon by those at the
26 next higher level (e.g., phytoplankton eaten by zooplankton eaten by fish).
27
- 28 **turbidity** – reduced water clarity resulting from the presence of suspended matter.
29
- 30 **vascular plants** – plants containing food and water conducting structures; higher plants that
31 reproduce by seeds.
32
- 33 **volatile organic compound (VOC)** – any reactive organic compound that is emitted to the
34 atmosphere as a vapor. The definition does not include methane.
35
- 36 **vulnerability** – the likelihood of being damaged by external influences. Vulnerability implies
37 sensitivity of a system plus the risk of a damaging influence occurring.
38
- 39 **weathering** – the aging of oil due to its exposure to the atmosphere and environment causing
40 marked alterations in its physical and chemical makeup.
41
- 42 **wetlands** – areas periodically inundated or saturated by surface or groundwater and
43 predominantly supporting vegetation typically adapted for life in saturated soil conditions.
44

- 1 **zooplankton** – animal plankton, mostly dependent on phytoplankton for its food source; small,
- 2 free-floating animals, may be passive drifters or motile, dependent on phytoplankton as a food
- 3 source.
- 4