

## ENVIRONMENT ELEMENT

**PURPOSE:** The purpose of the Environment Element is to describe specific criteria and review processes, and to identify regulations to achieve a balance between land development and use activities and environmental protection, consistent with the requirements of the Growth Management Act.

### RELATIONSHIP WITH OTHER ELEMENTS OF THE PLAN

The complexity of the issues associated with environmental protection requires that several other elements of the Comprehensive Plan address specific aspects of these issues and propose methods to address them. However, the Environment Element integrates the specific perspectives and methods from other elements that address environmental protection. Background information on environmental conditions and issues can be found in Appendix E of this Plan.

The following table summarizes the environmental protection issues identified and addressed in other elements of the Plan:

Element	Discussion
1. Land Use/Rural	Environmental features are important components of the rural character of Jefferson County. Shorelines, wildlife habitat, and water resources contribute to a sense of place and enhance the quality of life through natural ecological functions. Unmanaged, sprawling growth is the most significant threat to environmental quality in Jefferson County. In order to protect the public health and welfare, land use regulations are developed that respect the rights of property owners and preserve environmental functions.
2. Natural Resources Conservation	Natural resource lands provide important environmental functions, including surface water protection, habitat enhancement, and ground water recharge. Mineral lands can be reclaimed in a manner that provides enhanced environmental functions. Significant environmental features on natural resource lands should be preserved through the use of best management practices (BMPs).
3. Open Space, Parks and Recreation	Open space is fundamental for environmental protection and enhancement. New policies are developed for the preservation of the County's significant environmental features through the use of an enhanced open space network.
4. Utilities	Protection and management of water resources as a necessary public supply is linked to water system policies. Protection of existing water supplies and development of future supplies should be consistent with the protection of water resources and related environmental resources. Water resource protection also requires a storm water management plan that is integrated with a comprehensive watershed approach.

5. Capital Facilities	Recent population growth has raised concerns regarding the ability of surface and ground water sources to meet demand. The demands include not only public supply, but also those for habitat, recreation, and aesthetics.
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**ENVIRONMENTAL STRATEGIES**

Jefferson County believes that a healthy environment is fundamental to the quality of life of its citizens. While protection of the environment is a primary goal of the GMA planning process, neither the text of the Act nor the decisions of the Hearings Boards define specifically how this is to be accomplished. Therefore, for the purposes of this plan, Jefferson County has adopted a working definition of environmental protection which is based on the relationship between four essential components:

- Watershed and Fish Habitat Recovery Management Strategy;
- Regulatory Strategy for Consolidated Environmental Review;
- Critical Areas Protection Strategy; and,
- Public Education and Involvement Strategy.

**Watershed and Fish Habitat Recovery Management Strategy**

A Watershed and Fish Habitat Recovery Management Strategy recognizes the interconnected nature of environmental resources through the hydrologic cycle, and the necessity to develop comprehensive watershed and fisheries recovery management plans as the framework for resource management. The 1998 proposed listings of salmon and bull trout species as “threatened” under the Endangered Species Act, including the Hood Canal Summer Chum and the Puget Sound Chinook require that Jefferson County develop land use regulations to protect habitat based on integrated watershed and salmon habitat recovery plans. The County expects to work with local, tribal, state and federal agencies to develop land use regulations based on these plans that protect the water resources of the County for use by future residents and for the fish species that are threatened with extinction, as well as all other species.

Watershed management of hydrological resources addresses wetlands, shorelines, surface waters, aquifer recharge, landslide hazards, flood hazards, and frequently flooded areas. It incorporates management of instream flow volumes and storm water quality and quantity. It has a direct impact on and is integrally related to the protection of fish and wildlife habitat.

The 1997 state legislature enacted laws which establish the framework for watershed and fish habitat recovery planning. Jefferson County, a member of the Jefferson County Water Resources Council, will work with adjacent counties and other parties to develop watershed management plans on which land use regulatory decisions will be based. The goals and policies of the Environment Element reflect the County’s commitment to resource management based on watershed and fish habitat recovery planning.

As watershed plans are translated into land use regulations, a number of programs may be affected. Table 8-1 below provides an overview of the County regulatory issues for various water uses, and the Comprehensive Plan elements in which some of these issues are addressed. The primary agencies and laws with regulatory authority or involvement for the various water uses are listed in Table 8-2.

**Table 8-1  
Water Resources: Uses, Regulatory Issues, and Comprehensive Plan Elements**

Water Resource	Water Uses	County Regulatory Issues	Comprehensive Plan Elements <i>with primary water resources responsibility</i>
Ground Water & Surface Water Uses	<i>Potable Water Supply: Domestic/Commercial and Municipal</i>	Aquifer recharge, wellhead protection, storm water, water quality, water system planning, individual wells	<u>Utilities</u> – water systems, individual wells, wellhead protection, storm water <u>Environment</u> – aquifer recharge, water quality
	<i>Industrial</i>	aquifer recharge, storm water, water system planning, wellhead protection, water quality	<u>Utilities</u> – water systems, wellhead protection, storm water <u>Environment</u> – aquifer recharge, water quality
	<i>Agricultural</i>	aquifer recharge, storm water, water quality, flooding, wetlands, fish/wildlife habitat, aquifer protection	<u>Utilities</u> – storm water <u>Environment</u> – aquifer recharge, flooding, wetlands, habitat, aquifer protection, water quality <u>Capital Facilities</u> – flood management
Instream Flows	<i>Fish/Wildlife; Recreation; Hydropower</i>	instream flows, storm water, water quality, fish/wildlife habitat, flood management, shorelines management, wetlands	<u>Utilities</u> – storm water <u>Environment</u> – instream flows, flooding, wetlands, habitat, shorelines, water quality <u>Capital Facilities</u> – flood management
Marine	<i>Fish/Wildlife; Shellfish; Recreation</i>	fish/wildlife habitat, shellfish protection areas, wetlands, shorelines management, storm water, water quality	<u>Environment</u> – habitat, shellfish, wetlands, shorelines, water quality. <u>Utilities</u> – storm water

**Table 8-2  
Water Resources: Responsible Agencies and Applicable Laws\***

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Water Resource	Water Uses	Federal Authority and Environmental Laws	State Authority and Laws	Local Authority and Laws
<b>Ground Water &amp; Surface Water Uses</b>	<i>Potable Supply: Ground Water Quality/Quantity Management</i>	<u>Agencies</u> – Environmental Protection Agency <u>Legal</u> : Clean Water Act, Ground water guidelines, Safe Drinking Water Act	<u>Agencies</u> – Depts of Ecology and Health <u>Legal</u> – Ground Water Quality Standards, Surface Water Quality Standards, Water Code	<u>Agencies</u> – Planning Department; Public Works; County Health Department <u>Legal</u> – Critical Areas Ordinance; Coordinated Water System Plan
	<i>Potable Supply: Drinking Water</i>	<u>Agencies</u> – Environmental Protection Agency <u>Legal</u> – Safe Drinking Water Act	<u>Agencies</u> – Department of Health	<u>Agencies</u> – County Health Department; Planning Department <u>Legal</u> – Critical Areas Ordinance; Coordinated Water System Plan
	<i>Industrial</i>	<u>Agencies</u> – Environmental Protection Agency <u>Legal</u> – Clean Water Act	<u>Agencies</u> – Department of Ecology <u>Legal</u> : NPDES regulations, Water Code	<u>Agencies</u> – Planning Department
	<i>Agricultural</i>	<u>Agencies</u> – Environmental Protection Agency; U.S. Department of Agriculture; Natural Resource Conservation Service <u>Legal</u> – Clean Water Act	<u>Agencies</u> – Department of Ecology; Department of Agriculture <u>Legal</u> – Water Code, Surface Water Quality Standards	<u>Agencies</u> – Planning Department; Public Works; Washington State University Cooperative Extension; Conservation District
<b>Instream Flows</b>	<i>Fish/Wildlife Recreation Hydropower</i>	<u>Agencies</u> – Environmental Protection Agency; U.S. Dept. of the Interior; U.S. Dept. of Fish and Wildlife; U.S. Forest Service; Bureau of Indian Affairs; National Park Service; Federal Energy Regulatory Commission, Army Corps of Engineers, Bureau of Reclamation <u>Legal</u> – Clean Water Act; Endangered Species Act; Indian Treaty Rights	<u>Agencies</u> – Department of Ecology; Department of Natural Resources; Department of Fish and Wildlife <u>Legal</u> - Water Code	<u>Agencies</u> – Planning Department; Public Works <u>Legal</u> – Critical Areas Ordinance; Shoreline Master Program
<b>Marine</b>	<i>Fish/Wildlife Shellfish Recreation</i>	<u>Agencies</u> – Environmental Protection Agency; U.S. Department of the Interior; U.S. Department of Fish and Wildlife; Bureau of Indian Affairs; National Marine Fisheries; Army Corps of Engineers <u>Legal</u> – Clean Water Act; Endangered Species Act	<u>Agencies</u> – Department of Ecology; Department of Natural Resources; Department of Fish and Wildlife; Department of Health <u>Legal</u> – Shellfish Certification, Surface Water Quality Standards	<u>Agencies</u> – Planning Department; Public Works; County Health Department <u>Legal</u> – Critical Areas Ordinance; Shoreline Master Program

\*This list of laws and agencies is not all-inclusive, but lists those most frequently encountered on the local level.

### Regulatory Strategy for Consolidated Environmental Review

A Regulatory Strategy for Consolidated Environmental Review is an approach that combines various state and local environmental protection programs within a single regulatory framework. By encouraging

inter-agency cooperation and integrating these programs into a unified implementation strategy, the review process is simplified and made more efficient, thereby making environmental protection more comprehensive, effective and predictable.

Environmental review concentrates on those land development and use activities that have the greatest potential to have significant cumulative impact on the natural systems of the County. As a response to the current deficiencies of the local regulatory framework in regard to environmental protection, the County's regulatory strategy includes the adoption and implementation of the following:

1. A Clearing and Grading Ordinance that provides criteria and defines a threshold to ensure adequate protection of critical areas and associated buffers for all types of significant land uses and land-disturbing activities.
2. An amended Storm Water Ordinance that will adequately address the important issues of storm water management and conservation.
3. Special Environmental Overlay Districts created for areas of Jefferson County that are characterized by unique environmental protection needs. For example, Marrowstone Island has been designated a "Sole-Source Aquifer Area" by the Department of Ecology, and, as such, requires specific policies addressing its unique features and concerns, such as salt water intrusion.

The regulatory strategy for consolidated permit review is presented in the Comprehensive Plan through goals and policies that provide guidelines for types and thresholds of protection for each resource area. The action items under the regulatory strategy address the ordinances that will need to be written, revised, or amended, as well as the collection of scientific data on which to base permit decisions. Coordination with state and local agencies is included in order to streamline the multiple jurisdictional levels of review for many activities.

### **Critical Areas Protection Strategy**

The Critical Areas Protection Strategy describes the regulations and methodologies used to protect the critical environmental areas found throughout Jefferson County. Protection and enhancement of critical areas were determined by the state legislature to be essential to the maintenance of public health and safety.

The designation of Critical Areas in Jefferson County was guided by GMA requirements, state guidelines, and an extensive local review process (see Appendix E). In 1994, the Jefferson County Interim Critical Areas Ordinance was adopted. The ordinance was amended on June 26, 1995 to add provisions for the protection of Critical Aquifer Recharge Areas. The ordinance incorporates by reference the Jefferson County Floodplain Management Ordinance (Ordinance #1-89) for the regulation of frequently flooded areas, with language added that identifies these critical areas according to the Federal Emergency Management Agency (FEMA) 100-year floodplain designations. The Interim Critical Areas Ordinance designates and regulates the following critical areas as required under RCW 36.70A.030(5):

- Wetlands;
- Aquifer recharge areas;
- Frequently flooded areas;
- Geologically hazardous areas; and,
- Fish and wildlife habitat conservation areas.

Following the adoption of the Comprehensive Plan and pursuant to the provisions of RCW 36.70A.060(3), the Interim Critical Areas Ordinance will be reviewed for consistency with the

Comprehensive Plan prior to its adoption as a final ordinance. Provisions may be revised based on the review, for example, of regulations protecting fish and wildlife habitat that may need to be revised in light of the proposed listing of fish species under the Endangered Species Act.

The regulatory protection of critical areas will improve as the data base of information is developed over time. Action items under this strategy include continuing to inventory and map environmental conditions, which will increase the efficiency and the level of protection over the 20-year period of this plan. Critical Areas maps will be updated as new scientific information becomes available.

### **Public Education and Involvement Strategy**

A Public Education and Involvement Strategy has been included in the Environmental Element in recognition of the importance of public awareness and involvement to the success of an environmental protection program. Education regarding measures and regulations designed to protect property owners from environmental hazards will improve compliance with these regulations. In addition, when property owners of existing development are educated regarding natural processes and resource protection, they are likely to better manage their property, to seek assistance early, and to avoid taking actions which may cause problems on their own or nearby land.

A public involvement approach is also far more cost-efficient for both property owners and the County, in that addressing problems in advance is generally less costly than being forced to address them after they have become critical. Jefferson County's commitment to public education and involvement through the action items of this strategy will result in more effective protection of resources, the protection of life and property, and a population of residents who are more informed about, supportive of, and individually active in environmental protection.

## **COMPREHENSIVE ENVIRONMENTAL PROTECTION**

In order to address the environment in a comprehensive manner, Jefferson County has developed additional environmental goals and policies for protection of the following:

- Shorelines
- Air quality
- Natural heritage vegetation and landforms
- View and noise conditions

The implementation of this Plan through a revision of County ordinances will be guided by the goals and policies for these areas.

### **Shorelines**

Jefferson County contains significant shoreline resources, with approximately 202 miles of saltwater shoreline, 367 miles of streams, and 14 miles of lake shoreline. Over 80 percent of the shorelines in Eastern Jefferson County are privately owned, while most of the shorelines in the West End along the Pacific Ocean are managed by the National Park Service. In addition to providing fish, shellfish, and wildlife habitat, the shorelines of Jefferson County have value for residential and economic uses.

Shorelines of the State are regulated under the Shoreline Management Act (Chapter 90.58 RCW). Amendments to the Jefferson County Shoreline Master Program must be approved by the Department of Ecology and must comply with the State law. Shoreline permits issued by the County are reviewed by the State for compliance with State law. The County's Shoreline Management Master Program will be revised in the next several years to comply with the Growth Management Act, based on a review for consistency with this Comprehensive Plan and on guidelines currently being developed by the State. The revised Master Program will be adopted as an element of the Comprehensive Plan. During the interim period prior to adoption of a revised Shoreline Management Master Program, where shoreline regulations conflict with other ordinances, the more restrictive regulations shall apply.

The marine shorelines of Eastern Jefferson County have been developed at a rapid rate in some areas over the past several decades. In some areas, adverse impacts to the environment have occurred in terms of fish habitat damage, water quality degradation, altered patterns of sediment transport, and landslides where drainage and construction measures have exacerbated the instability of bluffs. Because activities in one area of the shoreline can have significant impacts in other shoreline areas, permit review processes must recognize the interdependence of shoreline landform stability and habitat with shoreline transport systems, drainage systems, and geologic conditions.

The goals, policies, and strategies for shorelines address the regulation of the shoreline for the protection of environmental functions, and the coordination of permitting decisions with state agencies responsible for environmental protection. In addition, because of the potential property damage that can result for a landowner and nearby properties if natural processes are ignored, the goals and policies of this plan include protection of property from the individual or cumulative effects of shoreline development. Public access and public education are also included as components that promote shoreline protection and enjoyment.

### **Air Quality**

Air quality throughout Jefferson County is generally good. The Olympic Air Pollution Control Authority, with regulatory authority under the Clean Water Act, attributes air pollution on the Olympic Peninsula to motor vehicles, outdoor burning, industrial emissions, and residential wood stoves. Air quality in East Jefferson County is more of a concern than that of the West End, given the higher concentrations of development and population.

Occasional burning bans which include the use of wood-burning stoves are declared when regional weather conditions result in a decrease in regional air quality. Over the next 20 years the population growth in East Jefferson County may contribute to a decrease in air quality, in particular along major transportation routes. The Environment Element proposes policies and strategies to address the long-term air quality of the County.

### **Natural Heritage Vegetation and Landforms**

Jefferson County's natural environment includes native vegetation, ecosystems, and landforms which have value to the community as the basis of its natural heritage. It is the intent of the County to protect areas of native ecosystems and to promote the use of native vegetation. Natural landforms and geologic outcrops with educational and scientific value, are included as having natural heritage value, and protection of these areas is encouraged for the education and enjoyment of future residents.

### **View and Noise Conditions**

The mountain, water, and valley views found in Jefferson County have significant value for County residents and visitors. County residents depend on these scenic resources for enriching their quality of life and maintaining economic vitality. Tourist activities and real estate property values reflect the high value placed on this aesthetic amenity. There are currently no regulations for the protection of views and viewsheds. A public discussion during the process of developing ordinances to implement the Comprehensive Plan can be used to determine the extent to which citizens feel that view protection should be regulated.

Given the rural nature of the County, there is very little light or glare “pollution” of concern to residents. Protection of the rural character of the community includes protection from excessive light and glare that may accompany development.

In rural Jefferson County the noise of a neighbor’s chain saw is generally an accepted part of life, and noise conditions have not generally been considered a problem. Resolving the impacts of growth in a changing rural area may require a level of noise regulation that will be determined in public processes for development of ordinances following approval of the Comprehensive Plan.

### **CRITICAL AREAS MAPS**

Maps are provided on the following pages that depict the location of critical areas identified by Jefferson County. Not all critical areas have been mapped. Jefferson County will continue to improve the information on which permit processing is based, in order to protect the public from inappropriate development and to protect the functions and values of critical areas.

CRITICAL AREAS WETLANDS, EASTERN JEFFERSON COUNTY



CRITICAL AREAS WETLANDS, WESTERN JEFFERSON COUNTY



CRITICAL AREAS AQUIFER RECHARGE SUSCEPTIBLE AREAS, EASTERN JEFFERSON COUNTY



CRITICAL AREAS FREQUENTLY FLOODED AREAS, EASTERN JEFFERSON COUNTY



CRITICAL AREAS LANDSLIDE HAZARD, EASTERN JEFFERSON COUNTY



CRITICAL AREAS EROSION HAZARD AREAS, EASTERN JEFFERSON COUNTY



CRITICAL AREAS SEISMIC HAZARD AREAS, EASTERN JEFFERSON COUNTY



CRITICAL AREAS SOIL LIMITATIONS FOR SEPTIC SYSTEMS, EASTERN JEFFERSON COUNTY



CRITICAL AREAS FISH AND WILDLIFE HABITAT, EASTERN JEFFERSON COUNTY



CRITICAL AREAS – FISH AND WILDLIFE HABITAT, WESTERN JEFFERSON COUNTY



## TOPOGRAPHY, EASTERN JEFFERSON COUNTY



TOPOGRAPHY, WESTERN JEFFERSON COUNTY



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## GOALS AND POLICIES

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The goals outlined below provide direction for the protection of Jefferson County's environmental features in a balanced relationship with other land uses. These goals are based on the requirements of the Growth Management Act, which outlines specific criteria for environmental protection, and on the issues and opportunities identified by County residents.

As in all elements of this Plan, the goals are general statements while policies are more specific. Goals state the general growth management intentions of the County while the policies are the processes for implementation. Strategies identify action items which consist of the specific projects or programs that will be used to implement the policies.

The Environmental policies will provide the basis for review of the development standards contained in the Jefferson County Critical Areas Ordinance and other regulations.

### WATER RESOURCES

#### GOAL:

**ENG 1.0      Manage, protect, enhance, and conserve water resources through a comprehensive watershed management program that is integrated with recovery plans for fish species proposed for listing under the ESA.**

#### POLICIES:

**ENP 1.1**      The County should take an active lead in developing watershed management plans which incorporate the Dungeness-Quilcene plan and watershed plans for small, independent marine drainages.

**ENP 1.2**      Participate in the Jefferson County Water Resources Council and other collaborative watershed and salmon habitat conservation planning processes with state, federal and tribal governments and local stakeholders, in order to integrate water resource management with fish and wildlife habitat protection and restoration.

**ENP 1.3**      Manage water resources using the best available scientific information and participate in collaborative processes to develop new information.

**ENP 1.4**      Encourage public education and information to foster citizen understanding and support of water resource management and conservation plans.

#### GOAL:

**ENG 2.0      Protect the quality and quantity of surface and ground water resources, and enhance and restore them where they have been damaged.**

POLICIES:

- ENP 2.1** Preserve the environmental functions of surface and ground water resources whenever feasible, and require mitigation measures for land use activities that may adversely impact surface and ground water.
- ENP 2.2** Manage surface water resources in accordance with a storm water management plan developed within the framework of a comprehensive watershed management plan.
- ENP 2.3** Protect surface water and its functions through mitigation measures developed in coordination with the Department of Ecology, the Department of Transportation, and other local, state, federal, and tribal agencies.
- ENP 2.4** Work with the Department of Ecology to restore and protect instream flow volumes, and comply with the State's Surface Water Quality Standards and other programs affecting surface water resources, consistent with a comprehensive watershed management approach.
- ENP 2.5** Provide buffers between land-disturbing activities and surface water resources to meet the standards of the best available fisheries science for protecting water resources and related habitat functions.
- ENP 2.6** Promote best management practices to protect surface and ground water in land use regulations related to septic systems, forest practices, agricultural practices, industry, and other development.
- ENP 2.7** Minimize the adverse impacts of land use activities on water resources where there is a potential for hydraulic continuity between surface and ground waters.
- ENP 2.8** Work with the Department of Ecology and other agencies to minimize salt water intrusion, to evaluate ground water resources that have been damaged either by salt water intrusion or other contamination, and to identify technically and financially feasible measures for remediation of adverse impacts.
- ENP 2.9** Coordinate with the Department of Ecology in developing a reliable data base of ground water monitoring data, in complying with State Ground Water Quality Standards, and in promoting water rights management that is consistent with the protection of existing water rights and with comprehensive watershed plans.
- ENP 2.10** Establish a well monitoring program, whenever possible in conjunction with partners such as the Public Utility District (PUD) No. 1 and the Department of Ecology, with protocols to assure quality control, and coordinate data interpretation and application through Water Resource Inventory Area (WRIA) Planning Units operating in Jefferson County per the Watershed Planning Act (RCW 90.82).

GOAL:

- ENG 3.0** **Ensure a sustainable and safe water supply as a critical necessity for residential, economic, and environmental needs.**

POLICIES:

- ENP 3.1** Work with the Water Utilities Coordinating Committee to revise the Coordinated Water System Plan for consistency with the Comprehensive Plan, in order to provide a safe and adequate water supply for County residents and other uses in balance with the protection of environmental functions of water resources.
- ENP 3.2** Support the development and implementation of wellhead protection programs for all public supply wells, and encourage the siting and construction of individual wells in a manner which protects existing water users and the ground water supply.
- ENP 3.3** Preserve and protect both existing and future water supplies, and encourage activities which utilize alternative water sources that are compatible with environmental protection, in accordance with state and federal laws regulating alternative water uses.
- ENP 3.4** Relying on technical input from the PUD, WRIA Planning Units, State Department of Ecology, and others as appropriate, review well monitoring data annually and report to the Board of County Commissioners on the status of seawater intrusion and other groundwater contaminants of concern in Jefferson County, and every five years prepare a comprehensive analysis.
- ENP 3.5** Implement an adaptive management program to protect groundwater against seawater intrusion.
- ENP 3.5.1** Conduct analysis of the monitoring data as follows:
- Define area of concern based on the extent of monitoring data that indicates potential seawater intrusion.
  - Use appropriate combination of accepted scientific methodology for evaluating seawater intrusion impact, as described in Pacific Groundwater Group study (1996), Washington Administrative Code, United States Geological Survey protocol, and other contemporary examples and approaches.
  - Conduct appropriate statistical analysis for evaluating groundwater using methodology approved by the Environmental Protection Agency for groundwater monitoring, such as the Sen's Slope Indicator Test.
- ENP 3.5.2** If statistically significant degradation in an area is determined to be the result of seawater intrusion, Jefferson County will immediately take one or more of the following actions:
- Adopt a moratorium in the affected area on the issuance of building permits for which individual groundwater wells are proposed as proof of potable water until such time as area water quality improves or a plan is developed with the objective of improving area water quality.
  - Adopt a moratorium on subdivisions in the affected area that propose individual groundwater wells as proof of potable water until such time as area water quality improves or a plan is developed with the objective of improving area water quality.

- Establish an aquifer protection district via public vote (RCW 36.36) *or, if necessary*, petition Ecology to form a groundwater management area (per WAC 173-100).

## SHORELINES

### GOAL:

**ENG 4.0**      **Preserve the long-term benefits of shoreline resources.**

### POLICIES:

**ENP 4.1**      Shorelines shall be managed according to the following order of preferred uses as established in the Shoreline Management Act (RCW 90.58.020):

1. Recognize and protect state-wide over local interests;
2. Preserve the natural character of the shoreline;
3. Achieve long-term over short-term benefits;
4. Protect the resources and ecology of the shoreline;
5. Increase public access to publicly owned areas of the shoreline;
6. Increase recreational opportunities for the public on the shorelines; and,
7. Provide for any other element as defined in RCW 90.58.100 and deemed appropriate or necessary.

**ENP 4.2**      The County shall revise the Shoreline Management Master Program to establish and implement policies and regulations for land use that are consistent with the Shoreline Management Act, the Growth Management Act, the Critical Areas Ordinance, and the Comprehensive Plan. The revised Shoreline Management Master Program shall be incorporated as an element of the Comprehensive Plan. Until the revised SMMP is adopted, where a regulatory provision is inconsistent with other County ordinances, the more restrictive provision shall apply.

**ENP 4.3**      Coordinate to incorporate local, state and federal laws into the recommendations of cooperatively-developed, comprehensive watershed and habitat conservation plans in shoreline planning processes.

**ENP 4.4**      Promote public access on shorelines in a manner that preserves or enhances the characteristics of the shoreline.

**ENP 4.5**      Increase shoreline physical and visual public access in transportation planning, especially in the development of viewpoints and trails.

**ENP 4.6**      Shoreline management decisions should preserve sites having historic, cultural, scientific, and archaeological value as identified under the appropriate authorities designated by state and federal law.

**ENP 4.7** Encourage and participate in projects and programs that foster a greater understanding of shoreline protection and hazards, maritime activities and history, and environmental conservation.

GOAL:

**ENG 5.0** **Allow development along shorelines which is compatible with the protection of natural processes, natural conditions, and natural functions of the shoreline environment.**

POLICIES:

**ENP 5.1** Regulate shoreline land use activities based on the best available scientific information.

**ENP 5.2** Protect nearby properties and the shoreline environment from the individual or cumulative effects of development that may interfere with the functions of sediment transport systems along the shoreline.

**ENP 5.3** Establish a preference for the use of non-structural rather than structural solutions in projects for shoreline stabilization, mitigation, rehabilitation, restoration, and enhancement.

**ENP 5.4** Coordinate with Department of Ecology water resources management and comprehensive watershed plans in order to protect water resources along shorelines, and to prevent, minimize, and mitigate salt water intrusion of coastal aquifers.

**ENP 5.5** Coordinate with the Department of Fish and Wildlife to protect and enhance fish and wildlife habitat and other marine resources.

**ENP 5.6** Manage shoreline hazard areas such as unstable bluffs and erosion and coastal flood hazard areas to protect public safety and public and private property.

**ENP 5.7** Manage storm water for proposed and existing development in a manner which prevents erosion, land instability, and flooding.

**ENP 5.8** Promote best management practices to protect shorelines in land use regulations related to septic systems, forest practices, agricultural practices, industry, and other development.

**AIR QUALITY**GOAL:

**ENG 6.0**      **Protect air quality from the adverse impacts of land use and development and improve it where it is degraded.**

POLICIES:

**ENP 6.1**      As a member of the Olympic Air Pollution Control Authority, continue to obtain technical information on air quality as a basis for an air quality improvement program.

**ENP 6.2**      Land use activities that create or compound air quality problems should be avoided or mitigated.

**ENP 6.3**      Coordinate the provision of public transportation to prevent congestion in areas of higher land use densities and in shopping and recreation areas, and promote multi-modal transportation for commuters to reduce pollution emissions from automobiles.

**ENP 6.4**      Promote public education programs that provide information on air quality problems and measures which individuals can take to improve air quality.

**ENP 6.5**      Promote best management practices to protect air quality in land use regulations related to sewage treatment plants, forest practices, agricultural practices, industry, and other development.

**NATURAL HERITAGE VEGETATION AND LANDFORMS**GOAL:

**ENG 7.0**      **Protect Jefferson County's natural heritage, including high quality native vegetation and unique landforms.**

POLICIES:

**ENP 7.1**      Encourage collaboration with state programs such as the Washington Natural Heritage Program and local conservation groups to identify and protect plants, plant communities, habitats and landforms which reflect the County's unique natural heritage.

**ENP 7.2**      Encourage the protection and acquisition of priority sites and habitats which protect native ecosystems.

**ENP 7.3**      Provide information as resources allow so that land use decisions recognize and reflect protection of native ecosystems and rare landforms.

**ENP 7.4**      Native vegetation should be used whenever possible in habitat restoration projects and linking of open space areas.

- ENP 7.5** Encourage the utilization of native vegetation and drought-tolerant species to reduce water consumption and landscape maintenance costs.
- ENP 7.6** Encourage public education and information to foster citizen understanding of native ecosystems and Jefferson County’s unique natural heritage.
- ENP 7.7** Encourage protection of unique geologic sites, conditions, and values, including locations of unique scientific interest, such as fossil locations and special mineral and rock locations.
- ENP 7.8** Support efforts of the Jefferson County Noxious Weed Control Board and other agencies to eradicate invasive species of vegetation.

**VIEW AND NOISE CONDITIONS**

GOAL:

**ENG 8.0 Protect the habitability, environmental quality and natural beauty of Jefferson County from the adverse impacts of development.**

POLICIES:

- ENP 8.1** The public process for adopting County ordinances should include a discussion of the public interest with respect to protection of views and viewsheds.
- ENP 8.2** Include in the public planning process a discussion regarding limiting noise pollution impacts through ordinance provisions which may require appropriate mitigation such as vegetative buffers, setbacks, acoustical walls, and termination of activities.
- ENP 8.3** Establish standards to limit the glare from outdoor lighting.

**CRITICAL AREAS REGULATED UNDER THE CRITICAL AREAS ORDINANCE**

**Geologic Hazard Areas**

GOAL:

**ENG 9.0 Prevent adverse impacts to public health and safety, to public and private property, and to the environment in landslide and erosion hazard areas.**

POLICIES:

- ENP 9.1** Review standards to minimize adverse impacts to public health and safety and to public and private property for areas where risk may occur from hazards such as landslides, erosion, subsidence, and other impacts associated with geologic hazards.
- ENP 9.2** Improve the scientific information which serves as the basis of land use and planning, such as the nature and distribution of geologic materials, processes, and conditions.

- ENP 9.3** Land uses in geologic hazard areas should be allowed only when appropriate mitigation is provided to protect public safety and the environment.
- ENP 9.4** Establish a preference for the use of landslide mitigation measures which are compatible with natural conditions, including setbacks, appropriate siting, drainage control, buffers, and bioengineering solutions.
- ENP 9.5** The County may require geotechnical reports for areas of potential risk from geologic conditions or processes when necessary, and may provide for qualified staff or peer review of studies under a reasonable fee schedule.
- ENP 9.6** Promote best management practices to minimize landslide risk in land use regulations related to septic systems, drainage, forest practices, agricultural practices, industry, and other development.
- ENP 9.7** Promote public education programs that foster an understanding of landslide hazard areas and encourage homeowners and communities to mitigate existing problems.

GOAL:

**ENG 10.0 Minimize seismic risk to life and property on new and existing structures.**

POLICIES:

- ENP 10.1** Continue to promote development which is designed to avoid and minimize seismic risk in land use regulations, including best management practices related to septic systems, drainage, industry, and other development.
- ENP 10.2** Continue to improve the scientific information for identifying areas of seismic risk from impacts such as shaking, ground breaking, tsunami, and landsliding, to serve as the basis of land use decisions and for recommending the retrofitting of existing development, as appropriate.
- ENP 10.3** Locate and construct transportation facilities, utilities, and essential public facilities to minimize adverse impacts from seismic events.
- ENP 10.4** Continue to coordinate with the State Department of Transportation to develop and implement a schedule for seismic reinforcement of Jefferson County bridges.
- ENP 10.5** Continue to promote public information programs to educate the public regarding the appropriate response to a seismic emergency in accordance with state, federal, and local emergency plans.

**Flood Hazard Areas**GOAL:

**ENG 11.0**      **Protect flood hazard areas from development and uses that compromise the flow, storage and buffering of flood waters, normal channel functions, and fish and wildlife habitat and to minimize flood and river process risk to life and property.**

POLICIES:

**ENP 11.1**      Coordinate flood plain management with watershed and habitat plans developed in multi-jurisdictional processes with community representation.

**ENP 11.2**      The County flood plain ordinance should address flood plain development standards and best management practices with an emphasis on managing the land use rather than managing the river.

**ENP 11.3**      Minimize flood damage by amending the flood ordinance to establish standards which preclude incompatible uses, protect the floodplain from significant adverse impacts, and promote non-structural solutions for flood plain management.

**ENP 11.4**      Promote public education and involvement regarding flood plain protection measures and hazard response.

**ENP 11.5**      Minimize flood damage to development by limiting flood plains to low intensity land uses and by limiting land uses in floodways to repairs of existing structures, temporary uses which are removable in the event of a flood, and uses that have a low flood damage potential, such as agriculture, stock grazing, parks, golf courses, horticulture, forestry, or parking areas subject to applicable regulations.

**ENP 11.6**      Essential public facilities shall be allowed in the base flood plain only when no feasible alternative is available.

**ENP 11.7**      Storm water management plans should minimize adverse effects of floods on existing and future development and protect the natural conditions and functions of the flood plain.

**ENP 11.8**      Encourage the designation and purchase of open space and riparian habitat in flood hazard areas consistent with watershed and habitat conservation plans and a flood management plan.

**ENP 11.9**      Land use decisions should consider the future cumulative cost to the public of flood plain development.

**Fish and Wildlife Habitat**

GOAL:

**ENG 12.0**      **Protect and enhance fish and wildlife habitat throughout Jefferson County.**

POLICIES:

- ENP 12.1** Participate in multi-jurisdictional processes with community representation for development of coordinated watershed and habitat conservation plans to serve as the basis of land use decisions that may affect fish and wildlife habitat.
- ENP 12.2** Land use decisions should recognize the priority of the protection and enhancement of fish and wildlife habitat in accordance with proposed listings of threatened and endangered species under the Federal Endangered Species Act.
- ENP 12.3** Buffers for fish and wildlife habitat areas should be consistent with the best available science for habitat protection.
- ENP 12.4** Promote the protection of wildlife habitat corridors that connect otherwise isolated habitat areas.
- ENP 12.5** Promote best management practices to protect fish and wildlife habitat in land use regulations related to septic systems, drainage, forest practices, agricultural practices, industry, and other development.
- ENP 12.6** Coordinate with appropriate agencies to avoid adverse impacts to fish and wildlife habitat in the review and approval of development proposals.
- ENP 12.7** Cooperate and coordinate in habitat restoration efforts with regional organizations such as the Hood Canal Coordinating Council.

**Aquifer Recharge Areas**GOAL:

- ENG 13.0** **Protect aquifer recharge areas from depletion of aquifer quantity or degradation of aquifer quality.**

POLICIES:

- ENP 13.1** Aquifer recharge areas should be designated and managed based on the best available science.
- ENP 13.2** Until geohydrologic studies provide additional information regarding the full extent of aquifer recharge areas, the County should protect aquifer recharge capability in all areas of the County.
- ENP 13.3** Storm water should be managed to enhance and protect aquifer recharge quality and rate of infiltration based on a comprehensive watershed plan.
- ENP 13.4** Promote best management practices to protect aquifer recharge areas in land use regulations related to septic systems, drainage, forest practices, agricultural practices, industry, and other development.

**ENP 13.5** Encourage the use of community water systems to serve new shoreline development.

**Wetlands**

GOAL:

**ENG 14.0** **Protect and enhance wetlands in all their functions.**

POLICIES:

**ENP 14.1** Designate and manage wetlands based on the best available science.

**ENP 14.2** Land use activities that may impact wetlands should be reviewed in the context of a comprehensive watershed and habitat conservation plan.

**ENP 14.3** Standards for wetland buffers should be consistent with the best available science as recommended by wetland and habitat biologists.

**ENP 14.4** Promote best management practices to protect wetlands in land use regulations related to septic systems, drainage, forest practices, agricultural practices, industry, and other development.

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## STRATEGIES

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### A. WATERSHED MANAGEMENT AND HABITAT RECOVERY STRATEGY

Jefferson County's strategy for management of environmental resources will be conducted in the context of a collaborative watershed management approach to the interrelated functions of the resources, in order that land use activities are consistent with plans for the recovery of fish species proposed for listing under the Endangered Species Act. .

#### Action Items

1. Participate as a member of the Water Resources Council for Water Resources Inventory Area 17 and other areas of Eastern Jefferson County, and as a member of watershed management unit(s) formed by multi-jurisdictional and community interests for watersheds in Western Jefferson County. (Corresponding Goals: 1.0, 3.0)
2. Participate in the update and implementation of the Dungeness-Quilcene Management Plan and watershed plans for independent drainage basins. (Corresponding Goals: 1.0, 2.0)
3. Work with the Department of Ecology to resolve applications for water rights in Jefferson County based on scientific information developed through a watershed management plan. (Corresponding Goals: 1.0, 2.0, 3.0)
4. Develop a surface water management plan based on a watershed approach to resource management. (Corresponding Goal: 2.0)
5. Cooperate in a phased series of watershed studies to identify and characterize surface and ground water resources and their interrelationships, in order to provide a scientific basis for water resource management, and to identify alternative and future sources of supply sufficient to meet projected population growth. (Corresponding Goals: 1.0, 2.0, 3.0)
6. Work in regional watershed management units State, Federal, and Tribal agencies to develop fish habitat recovery plans to determine land use activities that are allowed in the context of potential legal challenges under the Endangered Species Act. (Corresponding Goal: 1.0)
7. Work with the Water Utility Coordinating Committee to establish long-term public supply needs, to identify and protect future water supplies, and to establish regional conservation programs and funding mechanisms. (Corresponding Goals: 3.0, 4.0)

### B. CONSOLIDATED ENVIRONMENTAL REVIEW REGULATORY STRATEGY

Jefferson County's strategy for resource protection is based on an ongoing effort to inventory and collect information related to the County's environmental resources and functions based on the best available science, and to protect the resources through implementing ordinances.

#### Action Items

1. Develop a consolidated environmental review process that promotes efficient and timely permit decisions and a more comprehensive environmental review. (Corresponding Goal: 1.0)
2. Evaluate and develop standards for development, where appropriate, which include incentives for the protection of environmental resources, public access to shorelines, the creation of open space, the conservation of water resources, and the protection of viewsheds. (Corresponding Goals: 2.0, 3.0, 4.0, 8.0)
3. Identify criteria and designate Special Environmental Overlay Districts for areas of Jefferson County in which environmental protection needs are identified. (Corresponding Goals: 3.0, 4.0)
4. Develop and adopt a Clearing and Grading Ordinance that provides valid criteria and defines a threshold for protection of critical areas and associated buffers. (Corresponding Goals: 2.0, 5.0, 12.0, 13.0, 14.0)
5. Develop and implement standards for mitigation measures for land use activities that may adversely impact environmental resources. (Corresponding Goals: 2.0, 4.0, 5.0, 12.0, 14.0)
6. Review standards for qualified experts and for technical studies used in permit review, including procedures for peer review, to promote data and analyses that are consistent with the best available science. (Corresponding Goals: 2.0, 4.0, 9.0, 10.0, 14.0)
7. Continue gathering data to identify aquifer recharge and storage areas and amend the Critical Areas Ordinance to protect the quality and quantity of the ground water in those areas. (Corresponding Goals: 2.0, 13.0)
8. Review land use regulations to ensure that they protect aquifers and to minimize and mitigate known areas of salt water intrusion, and participate in technical studies to identify additional affected areas requiring regulation. Work with purveyors to promote the use of unaffected upland water sources and other alternative supplies, where appropriate, to supply new and existing development in affected areas. (Corresponding Goals: 2.0, 3.0, 13.0)
9. Work cooperatively with the Department of Ecology and watershed management units to address County surface waters which have been listed as water quality impaired under the Clean Water Act, Section 303(d), and to restore and protect instream flow volumes. (Corresponding Goals: 2.0, 12.0)
10. Develop a surface water management plan to minimize peak flow levels and non-point source pollution, and implement the plan through an amendment of the storm water ordinance. (Corresponding Goals: 2.0, 9.0)
11. Review County ordinances to incorporate best management practices based on the best available science to protect surface and ground water quality in land use regulations related to septic systems, forest practices, agricultural practices, industry, and other development. (Corresponding Goals: 2.0, 3.0, 13.0)
12. Amend County development standards as needed to promote water conservation measures by allowing and, in some cases, requiring newly developed technology that meets standards for health and safety, and by promoting appropriate landscape and drainage design.

(Corresponding Goals: 3.0, 7.0)

13. Amend ordinances to protect future and alternative water supplies that are identified in the course of watershed studies. (Corresponding Goals: 1.0, 3.0)
14. Work with the Water Utilities Coordinating Committee to revise and update the Coordinated Water System Plan, and assist them in ensuring that water purveyors meet Department of Health and Ecology regulations and guidelines. (Corresponding Goal: 3.0)
15. Assist the Water Utilities Coordinating Committee and cooperate with water purveyors in developing wellhead protection programs, and implement land use regulations for protection of public water supplies. (Corresponding Goals: 3.0, 13.0)
16. Evaluate and implement, where appropriate, criteria and standards for clustering that promote the protection of environmental resources, shoreline public access, and open space. (Corresponding Goals: 2.0, 4.0)
17. As funding becomes available, identify through revision of the shoreline plan the shoreline and water areas with unique attributes for specific long-term uses such as fish and wildlife habitat, water-oriented activities, storm water management, recreational, and open space uses, and designate these uses through amendments to the Comprehensive Plan. (Corresponding Goals: 4.0, 5.0)
18. Continue to inventory shoreline landforms, processes, and functions as funding becomes available so as to increase the scientific information on which to base permitting decisions. (Corresponding Goals: 4.0, 5.0)
19. Revise the Shoreline Management Master Program to be consistent with the Growth Management Act, the Comprehensive Plan, the Critical Areas Ordinance, and the State Shoreline Management Act, including standards to preserve and protect the quantity and quality of water resources along shorelines through storm water treatment, erosion and drainage control, restoration of failing septic systems, and other appropriate measures. (Corresponding Goals: 2.0, 4.0, 5.0)
20. Incorporate measures to address the adverse impacts of invasive vegetation in lakes and bays into the Shoreline Management Master Program revision. (Corresponding Goals: 4.0, 5.0)
21. Revise the Shoreline Management Master Program to include standards for qualified experts, technical studies, and peer review to promote decision-making based on the best available scientific information to prevent hazardous development activities. (Corresponding Goals: 4.0, 5.0, 9.0)
22. Review the Shoreline Management Master Program to ensure that setbacks, stabilization techniques, and other mitigation and protection measures are based on the best available science. (Corresponding Goals: 4.0, 5.0, 9.0)
23. Establish standards for site development permits which minimize airborne dust from construction and land clearing activities. (Corresponding Goal: 6.0)

24. Evaluate and allow, in appropriate areas, on-site wood waste recycling facilities (i.e., wood chipping) that reduce the need to burn debris. (Corresponding Goal: 6.0)
25. Evaluate, develop as appropriate, and implement standards to avoid and mitigate land uses that create or compound air quality problems. (Corresponding Goal: 6.0)
26. Develop and implement standards to limit the glare from outdoor lighting. (Corresponding Goal: 8.0)

### **C. CRITICAL AREAS STRATEGY**

Jefferson County's strategy for protection and management of critical areas is based on improving the scientific information on which decisions are based, and in reviewing the Interim Critical Areas Ordinance to be consistent with the goals and policies of the Comprehensive Plan and revising it as needed prior to adoption as a final ordinance.

#### **Action Items**

1. Continue to inventory and map landslide and erosion hazard areas, as funding becomes available, to serve as the scientific basis for land use decisions. (Corresponding Goal: 9.0)
2. Based on ongoing inventory, identify shoreline areas of risk such as unstable coastal bluffs, areas of erosion and coastal flood hazard areas; designate them as critical areas where appropriate; and establish restrictions for uses and activities to protect public safety and property in those areas. (Corresponding Goals: 4.0, 5.0, 9.0)
3. Review the Interim Critical Areas Ordinance and the Storm Water Ordinance to ensure that drainage and design standards for storm water will maintain the County-wide National Flood Insurance Program Community Rating System in order to develop new programs to mitigate flood hazards and reduce insurance rates. (Corresponding Goal: 11.0)
4. Review the Interim Critical Areas Ordinance to ensure that engineering, drainage and design standards for storm water management in landslide and erosion hazard areas are based on the best available science in the final ordinance. (Corresponding Goals: 2.0, 5.0, 9.0)
5. Work with local agencies and citizens in existing Flood District Boards and establish new Flood District Boards in flood hazard areas where they do not exist. (Corresponding Goal: 11.0)
6. Continue to inventory and map seismic hazard areas as funding becomes available, and amend the Critical Areas Ordinance to provide engineering and design standards based on the best available science to minimize seismic hazards. (Corresponding Goal: 10.0)
7. Seek funding to inventory public and essential facilities which do not meet current seismic construction standards, and prioritize facilities for seismic reinforcement. (Corresponding Goal: 10.0)
8. Review the floodproofing and storm water management measures for development in the flood plain to minimize adverse impacts to property and to natural flood plain functions, such as channel storage and lateral migration of channels. (Corresponding Goals: 11.0, 12.0)

9. Review the Flood Damage Prevention Ordinance for consistency with flood management plan based on a watershed approach, to preclude incompatible uses, to protect flood plain functions, to promote non-structural solutions, to protect water quality and quantity, and to support habitat recovery plans.

*“Precluding incompatible uses and development does not mean a prohibition of all uses or development. Rather, it means governing changes in land uses, new activities, or development that could adversely affect critical areas. Thus for each critical area, counties and cities planning under the act should define classification schemes and prepare development regulations that govern changes in land uses and new activities by prohibiting clearly inappropriate actions and restricting, allowing, or conditioning other activities as appropriate.” Chapter 365-190-020 pursuant to RCW 36.70A050.*

(Corresponding Goals: 1.0, 2.0, 11.0, 12.0)

10. Collect existing information, identify and map important areas of both private and public lands containing fish (including shellfish) and wildlife habitat areas, as funding becomes available. Examples of such areas are:

- Stream corridors and wetland areas;
- Habitat areas for endangered, threatened, candidate, monitored, and sensitive species;
- Priority habitats as identified by the Department of Fish and Wildlife;
- Known wildlife movement corridors;
- Priority recreational and commercial shellfish growing areas as identified by the responsible State agency;
- Kelp and eelgrass areas which are important to herring reproduction;
- Naturally occurring ponds of less than 20 acres;
- Raptor habitat areas;
- Corridors which provide the only cover in high density areas and serve as connection to other habitat areas;
- Other “habitats and species of local importance” (Chapter 365-190-080(5)(c)(ii) WAC) such as the winter range of the Roosevelt elk herd; and
- Fish hatcheries.

(Corresponding Goals: 12.0, 14.0)

11. Review the Interim Critical Areas Ordinance prior to adoption as a final ordinance to ensure that buffers for fish and wildlife habitat areas are based on the best available science. (Corresponding Goals: 12.0, 14.0)

12. Revise Critical Areas maps to identify areas important for aquifer recharge capability as information is developed through on-going study pending funding availability. (Corresponding Goals: 2.0, 13.0)

13. Provide standards for development in a watershed-based storm water management plan to protect the rate of infiltration of uncontaminated storm water where the creation of impervious surfaces or drainage measures may compromise aquifer recharge capability. (Corresponding Goals: 2.0, 13.0)

**D. PUBLIC SAFETY, EDUCATION AND INVOLVEMENT STRATEGY**

Jefferson County recognizes that strategies for environmental protection are closely related both to public safety and the public enjoyment of resource values and functions, and that the County strategy must include measures for public involvement and education.

**Action Items**

1. Cooperatively implement, with available resources, a public education and involvement process to promote citizen understanding and support of water resource protection and conservation through watershed management. (Corresponding Goals: 1.0, 3.0)
2. Support and implement programs for education of the public and the development community regarding development hazards and measures required and recommended for protection of environmental resources as funding becomes available. (Corresponding Goals: 5.0, 9.0, 10.0, 11.0, 13.0)
3. Conduct public education programs which foster an understanding of landslide hazard areas, and work with developers, homeowners, and communities to avoid and mitigate existing problems and to prevent future problems. (Corresponding Goals: 5.0, 9.0)
4. Support public education programs that promote an understanding of issues related to boater safety.
5. Develop data and procedures to coordinate the declaration of burn bans to be consistent with local monitoring information. (Corresponding Goal: 6.0)
6. Revise the sign code to reflect the design standards proposed by individual community plans, so that outdoor advertising is in keeping with the character of the community. (Corresponding Goal: 8.0)
7. Develop and implement standards such as vegetative buffers, setbacks, and acoustical walls to provide protection of nearby areas from excessive noise levels. (Corresponding Goal: 8.0)
8. Work with environmental education groups to collect and disseminate information on proposed listings of fish species as endangered or threatened and impacts of the proposed listings on land use activities. (Corresponding Goals: 1.0, 12.0)