



ISLAND COUNTY PLANNING & COMMUNITY DEVELOPMENT

PHONE: (360) 679-7339 ■ from Camano (360) 629-4522 ■ from S. Whidbey (360) 321- 5111
■ FAX: (360) 679-7306 ■ 1 NE 7th St., Coupeville, WA 98239-5000 ■ 121 N East Camano
Drive, Camano Island, WA 98282 ■ Phone (360) 387-3443
www.islandcountywa.gov/planning

INSTRUCTIONS FOR FILLING OUT AND SUBMITTING AN APPLICATION

- Type or neatly print all information. Only fill out those portions that are not shaded in gray.
- If someone other than the landowner is applying for the permit, the application must be accompanied by a notarized "Applicant Authorization Form". Without this form, the application will be incomplete and will not be accepted by County staff. The "Applicant Authorization Form" is attached to this application.
- This application is a "Master Land Development Permit" and must be filled out for all types of development permits. Depending upon your specific proposal you will need to fill out supplemental attachments to this application that provide more specific information. No development proposals can be reviewed using only this form so please ask what additional forms you will need.

Electronic Submittal Process

It is preferred for applicants to use the electronic submittal process to submit application materials. Please save all electronic files in **PDF file format**, using the following file naming procedure for submittal:

ApplicantLastName_DocumentName_DateSubmitted.pdf

Document names should be abbreviated; below is a list of common document names and their abbreviations:

Application APP	Arch Report ARCH	AsBuilt ASB	Site Plan SPLAN
Buffer Enhancement Plan BEP	Biological Site Assessment BSA	Certificate of Appropriateness COA	Field Indicators Worksheet FIELD
Elevations ELV	Mitigation Plan MIT	Geocoastal GEOF	Geotechnical GEO
Revisions REV 1,2,3,	SEPA Checklist SEPA	Wetland Report WET	Drainage Narrative DRNG

Example of file naming using document abbreviation: **Johnson_APP_091324.pdf**

Once all files have been saved using the naming procedure above, all files can then be submitted to: planningdept@islandcountywa.gov Emails over 7 MB should be sent through a file sharing application, or contact the Planning Department for an FTP sharing link. Once application materials have been reviewed by planning staff and deemed sufficient for submittal, the applicant will receive an email along with an invoice and payment instructions.

**All fees must be paid within 14 calendar days, or the application will become null and void,
cancelling the application.**

After payment is received, the applicant will receive a letter of completeness indicating that the review period has begun. If the application is deemed incomplete, the applicant will receive a letter stating that the application is incomplete and requires revisions.

IF APPLICANT CHOOSES IN PERSON SUBMITTAL AN APPOINTMENT IS PREFERRED

Whidbey: call 360-678-7339

Camano: call 360-387-3443

MASTER LAND DEVELOPMENT PERMIT APPLICATION

Application # _____ date Rec'd _____ Receipt # _____ Associated Files _____

ISLAND COUNTY PLANNING AND COMMUNITY DEVELOPMENT

1 NE 6th St. COUPEVILLE, WA 98239

Phone: (360) 679-7339 - South Whidbey (360) 321-5111 - Camano Island (360) 629-4522
<https://www.islandcountywa.gov/Planning/Pages/Home.aspx>

Owner	Phone					
Address	e-Mail					
City, State, Zip	Signature					
Owner	Phone					
Address	e-Mail					
City, State, Zip	Signature					
Applicant/Agent*	Phone					
Address	e-Mail					
City, State, Zip	Signature					
PROPERTY INFORMATION						
Project Address (include city):						
Parcel #	Key #	Parcel Size	Division	Block	Lot	Zoning

Do you own contiguous parcels? <input type="checkbox"/> Yes (if yes, list) <input type="checkbox"/> No	Is the property in a special tax program, e.g. forest, agriculture, senior citizen, etc.?	
PROJECT INFORMATION (check all that apply) Form letter reference is bolded		
SUBDIVISION <ul style="list-style-type: none"> <input type="checkbox"/> Short Plat - Preliminary (G) <input type="checkbox"/> Short Plat - Final (H) <input type="checkbox"/> Short Plat - Alteration (L) <input type="checkbox"/> Long Plat - Preliminary (I) <input type="checkbox"/> Long Plat - Final (J) <input type="checkbox"/> Long Plat - Alteration (M) <input type="checkbox"/> Planned Residential Development <input type="checkbox"/> (K) Boundary Line Adjustment (BB) <input type="checkbox"/> Lot Combination (BB) 	SITE PLAN REVIEW <ul style="list-style-type: none"> <input type="checkbox"/> Cell Tower (E) <input type="checkbox"/> Surface Mine (F) <input type="checkbox"/> Rural Commercial Events (EE) <input type="checkbox"/> Type II in NR Zones (D) Type II in other Zones (C) <input type="checkbox"/> Type III in NR Zones (D) <input type="checkbox"/> Type III in other Zones (C) 	ZONING <ul style="list-style-type: none"> <input type="checkbox"/> Certificate of Zoning Compliance <input type="checkbox"/> Zoning Code Interpretation Zoning <input type="checkbox"/> Code Amendment Comprehensive Plan <input type="checkbox"/> Amenagement
CRITICAL AREAS <ul style="list-style-type: none"> <input type="checkbox"/> Public Transportation Utility (Y) <input type="checkbox"/> Reasonable Use (Type 1) (X-1) <input type="checkbox"/> Reasonable Use (Type 2) (X-2) <input type="checkbox"/> Wetland or Buffer Improvement (Z) <input type="checkbox"/> Critical Areas Permitted Use (P) <input type="checkbox"/> Critical Areas Variance (V) 	SHORELINE <ul style="list-style-type: none"> <input type="checkbox"/> Shoreline Exemption (R) <input type="checkbox"/> Shoreline Exemption Limited Review <input type="checkbox"/> Shoreline Development (Q) <input type="checkbox"/> Shoreline Variance / Conditional Use (S) 	OTHER <ul style="list-style-type: none"> <input type="checkbox"/> Environmental Checklist (SEPA) <input type="checkbox"/> Clearing and Grading (N) <input type="checkbox"/> Water System Review <input type="checkbox"/> Variance (A) <input type="checkbox"/> Temporary Use <input type="checkbox"/> Restoration



AGENT AUTHORIZATION FORM

Received date: _____

Received by: _____

Landowners may authorize agents, designers, contractors, etc. to apply for permits and conduct activities on their behalf by completing this form and returning to Island County staff. Once received, this form will expire in 3 years. Any applications or requests that agents submit on an owner's behalf must meet the general description provided by the owner below.

I/We hereby authorize the following companies or individuals to submit applications on my/our behalf. I/We also understand that once a permit/application is submitted that all future correspondence may be directed to said agent(s).

Description of work/project: _____

Agent Name: _____

Agent Name: _____

Agent Name: _____

Agent Name: _____

Parcel number(s): _____

Name 1 (printed) _____ Date: _____

Signature 1: _____

Name 2 (printed) _____ Date: _____

Signature 2: _____

APPLICATION CHECKLIST

Please use the following checklist to ensure you provide all the items required under Island County Code. If you believe that an item is not applicable, write N/A and explain why in the blank. All of the blanks under "Applicant Use" must be filled in for this application to be accepted as complete and for the review process to begin. This checklist applies to all land use applications. Depending upon the type of application, additional information may also be required which will be outlined in any of the additional forms attached to this Master Permit Application.

Applicant Use	Application Requirements	County Use Only
	<ol style="list-style-type: none"> <input type="checkbox"/> 1) Payment, as established by the Board of Island County Commissioners <input type="checkbox"/> 2) Completed Master Land Development Permit Application <input type="checkbox"/> 3) Electronic copy via email, thumb drive, or file sharing link containing complete application and associated reports (.pdf format requested) . Please send separate documents as separate <u>files</u>. For example, the application form, SEPA checklist, wetland report, BSA, etc. should all be separate files with clear filenames. <input type="checkbox"/> 4) Completed Field Indicators Worksheet (from Wetland ID Guide) <ol style="list-style-type: none"> <input type="checkbox"/> a) Land Use Intensity Worksheet (If applicable) <input type="checkbox"/> b) Wetland Buffer Worksheet (If applicable) <input type="checkbox"/> 5) Completed project specific Forms (e.g. Form A Variance, etc.) <input type="checkbox"/> 6) A legible plot plan that shows all of the following (except for final long and short subdivisions – for short subdivisions see Form H; for long subdivision see Form J for map requirements; For BLA or Lot Combination see Form BB): <ol style="list-style-type: none"> <input type="checkbox"/> a) Drawn to a standard <u>engineering</u> scale (specific Forms will provide an appropriate range of scales). Indicate scale. <input type="checkbox"/> b) North arrow <input type="checkbox"/> c) Boundaries, dimensions and area of lot (square feet or acres) <input type="checkbox"/> d) Name of road(s) bordering the property and their width <input type="checkbox"/> e) Land features. Show the top and toe of all slopes, the direction of slope, percentage of slope, seasonal drainage ways, soggy areas, ditches, ravines, lakes, ordinary high water mark of shoreline, etc. <input type="checkbox"/> f) Critical Areas. Show protected species habitats, geologically hazardous areas, floodplains, aquifer recharge areas, streams, wetlands as well as all their associated buffers on-site or off-site when they may affect the proposal. <i>(note: if a feature is shown on the County's Critical Areas map it must be shown on the plot plan; if you do not believe that feature is present please describe).</i> <input type="checkbox"/> 7) If the proposal is in an archaeological area, a report must be submitted that identifies resources and how they will be protected. <input type="checkbox"/> 8) Assessor's quarter section map(s) that identifies the subject site and any contiguous properties in the same ownership (not needed for final short and final long subdivisions). <input type="checkbox"/> 9) Vicinity map and specific written directions on how to find the site. Provide the map and directions together on a single 8.5 by 11 inch sheet. The map must be detailed enough to clearly locate the site and must identify major arterials, county roads, natural features, landmarks, city limits or any other feature that will help describe how to find the site. A copy of a general road map that highlights the location of your proposal is ideal. 	

FORM P – SUPPLEMENTAL CRITICAL AREAS APPLICATION CHECKLIST

In addition to the items identified in the Master Permit Application Checklist a Critical areas Permitted Use application also requires the following additional items. For those items below that must be shown on a plot plan please show them on the same plot plan required under item #5 of the Master Permit Application Checklist – it is not necessary that you prepare two separate plot plans.

APPLICANT USE	APPLICATION REQUIREMENTS	FOR COUNTY USE ONLY
	<ol style="list-style-type: none"> <input type="checkbox"/> 1. Copies of soil logs registered with the County Health Department and as-build drawings for existing septic systems, if available. <input type="checkbox"/> 2. Additional items shown on plot plan: <ol style="list-style-type: none"> a. Location, size and purpose of all existing buildings (temporary or permanent) and proposed buildings. Label each as existing or proposed. b. Location, dimensions and volume of all existing and proposed propane tanks, fuel tanks, etc. Label each as existing or proposed. c. Location and dimensions of all decks, roof overhangs, porches, cantilevers, bay windows, retaining walls, patios, and chimneys. d. Distances between property line and existing and proposed buildings and between buildings. e. Location and width of existing and proposed driveways/accessible serving each structure and any parking areas. Access permit numbers, if assigned. f. Indicate any and all easements (access, utility, drainage, etc.) on the property including their dimensions. Label them with existing or intended use and the Auditor File No. g. Indicate location of septic tank, drainfield, reserve area, and tightline between house and septic tank. Show distances between drainfield and reserve area to property lines. Indicate if hooked up to sewer. h. Location and description of all existing and proposed drainage features and systems, including natural drainage ways, culverts, and ditches. Show the direction of water flow. 	

APPLICANT USE	APPLICATION REQUIREMENTS	FOR COUNTY USE ONLY
	<ul style="list-style-type: none"> <input type="checkbox"/> i. Show existing and proposed finished grade contours for any cut or fill 2 feet or greater in height in plan view and cross sections. Indicate quantities of fill or excavation in cubic yards. For any material exported from the site, state quantity and where materials will be disposed. For any materials imported to the site, indicate quantity, source and type of materials. <input type="checkbox"/> j. Existing and proposed vegetation, please be specific about type, e.g. shrubs, grasses, types of trees, etc. Label each as existing or proposed. <input type="checkbox"/> k. Clearing limits. Show all areas where trees, brush, and vegetation currently exists and will be cut or removed. <input type="checkbox"/> l. Erosion and sedimentation control plans. Show all areas where soil will be exposed along with measures to limit erosion and transport of silt and sediment. <input type="checkbox"/> m. Indicate location of water lines, well, and pollution control radius. <i>Note: A pollution control radius around an off-site well may impact your project if it overlaps onto your parcel.</i> <input type="checkbox"/> n. Road distances to nearest fire hydrant, if applicant has right to use fire hydrant. <input type="checkbox"/> 3. Separate Existing Conditions map for large or complex projects. Show topography with contour intervals of no greater than 5' and all natural features. <input type="checkbox"/> 4. A Biological Site Assessment meeting all requirements of ICC 17.02.110.C.2. <input type="checkbox"/> 5. A wetland delineation, wetland report, or both, as applicable. <input type="checkbox"/> 6. SEPA - Environmental Checklist, if required. <input type="checkbox"/> 7. Provide copies of any approvals of permits granted by other agencies such as the Washington State Department of Fish and Wildlife, Army Corps of Engineers, Washington State Department of Natural Resources, Department of Ecology, etc. 	

Form V	ISLAND COUNTY PLANNING AND COMMUNITY DEVELOPMENT APPLICATION FOR CRITICAL AREAS VARIANCE
<p>Please provide responses to all of the following questions, as well as provide a separate document to address the variance criteria of ICC 17.02B.320 and ICC 17.02.210, as listed at the end of this application form. The application must be accompanied by a Biological Site Assessment, prepared by a qualified professional. As an alternative to providing a separate document to address the variance criteria, this information may be incorporated into a Biological Site Assessment Report or as an addendum to that report.</p>	
<p>1. List the existing uses and structures that are currently located on the parcel (e.g. vacant, single family residence, etc.). Photos of the site may also be attached to this application.</p> <hr/> <hr/>	
<p>2. Describe the proposed activity and its purpose:</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	
<p>3. Explain why the proposed critical area or buffer alteration is needed. List all potential alternatives for avoiding impact of the critical area? Is there any other portion of the property where the development could be located outside of the critical area or its buffer?</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	

4. Will this project involve grading? Yes No If yes, please provide the following information:

- a. quantity of grading: _____ cubic yards
- b. quantity of filling: _____ cubic yards
- c. maximum height of cut and/or fill: _____ feet
- d. the type of fill (e.g. sand, gravel, topsoil) : _____
- e. quantity of fill to be exported from site _____ cubic yards
- f. address of receiving site: _____
- g. parcel number of receiving site: _____

Note: the total amount of grading includes all material relocated on site, plus any material imported to, or exported from the site.

5. All sites have stormwater runoff from things such as gutters, driveways, roads, cleared areas or new impervious surfaces. Describe how it will be managed. Please be specific (e.g. runoff from gutters and parking areas will be infiltrated by a drywell located near the SE corner of the house, or runoff from the driveway will be captured in a catch basin and routed in a tightline over the bluff to the beach. "No runoff" is not acceptable): _____

6. Have any other permits been submitted for this site (e.g. building permits, clearing and grading, septic, setback variances, etc.)? Please list and provide the permit number: _____

7. Total area of critical area to be disturbed: _____ sq. ft.

Total area of critical area buffer to be disturbed: _____ sq. ft.

Total area of mitigation proposed: _____ sq. ft.

General type of mitigation proposed (e.g. restoration, enhancement, creation):

Note: a detailed explanation of the proposed mitigation should be provided in the accompanying Biological Site Assessment report.

Pursuant to ICC 17.02B.320.D, a Biological Site Assessment report prepared by a qualified professional shall accompany a variance request to provide information on the functions and values of the critical area or critical area buffer proposed for alteration, the impact of the proposed development on the critical area and its buffer, what constitutes a reasonable use of the property, steps taken to achieve mitigation sequencing, consistent with section 17.02B.080.B., including avoidance and minimization, an explanation of the portion of the Code the proposed development was not compliant with, and other information as deemed necessary by the Planning Director.

In addition to the Biological Site Assessment, please provide a written, detailed statement addressing the Fish and Wildlife Habitat Conservation Area (FWHCA) Variance Review Criteria. The document should identify how your proposal addresses each of the standards listed below for approval of a variance. Please describe in complete sentences the special circumstances on your site that show a variance is justified in your particular circumstance. In order to approve a critical areas variance request, the hearing examiner must determine that the requested variance is consistent with all of the following criteria.

Variance criteria A variance may be granted from standards of this chapter, only if the applicant demonstrates that the requested action is consistent with the variance approval criteria enumerated in section [17.03.210](#) as well as all of the criteria set forth as below:

1. Special conditions and circumstances exist that are peculiar to the land, the lot, or something inherent in the land, and that are not applicable to other lands subject to the provisions of this chapter; and
2. The special conditions and circumstances do not result from the actions of the applicant or owner; and
3. The inability to derive reasonable use of the property is not the result of a land division or a boundary line, which created the undevelopable condition after October 1, 1998; and
4. A literal interpretation of the provisions of this chapter would deprive the applicant of all reasonable use of the subject property, and the variance requested is the minimum necessary to provide the applicant with such rights; and
5. Granting the variance requested will not confer on the applicant any special privilege that is denied by this chapter to other lands, structures, or buildings under similar circumstances; and
6. The granting of the variance is consistent with the general purpose and intent of this chapter, and will not further degrade the functions or values of the subject critical areas; and
7. The proposed development does not pose a threat to public health, safety and welfare on or off the subject property; and
8. Any alterations permitted pursuant to the requirements of this chapter shall be the minimum necessary to allow for reasonable use of the property; and
9. The decision to grant the variance considers best available science for the critical area and gives special consideration to conservation and protection measures necessary to preserve or enhance anadromous fish habitat; and

10. The mitigation sequencing provisions of section 17.02B.080.B. have been applied; and
11. The proposal mitigates the impacts on the critical area to the maximum extent possible, while still allowing reasonable use of the lot; and
12. The granting of the variance is consistent with the general purpose and intent of the Island County Comprehensive Plan, and planning policies.

In addition to the criteria listed above, provide a written statement addressing the Variance Standards of the Island County Zoning Ordinance (ICC 17.03.210.D). In a separate document identify how your proposal addresses each of the seven standards (listed below) for approval of a variance. Please provide complete answers and details about special circumstances on your site that show a variance is justified in your particular circumstances. This is critical because a variance application cannot be approved unless the applicant demonstrates that all seven standards are met.

- a. The granting of the variance shall be consistent with the purpose and intent of this Chapter and conditions shall be imposed to ensure compatibility with surrounding permitted uses.
- b. The granting of the variance will not permit the establishment of any use which is prohibited by this Chapter.
- c. The granting of the variance must be necessary for the Reasonable Use of the land or Building and the variance as granted by the County is the minimum variance that will accomplish this purpose. The findings shall fully set forth the circumstances by which this Chapter will deprive the applicant of a Reasonable Use of the land. Mere loss in value shall not justify a variance.
- d. The granting of the variance will not impair or substantially diminish the property values of surrounding neighborhood properties.
- e. The granting of the variance will not confer on the applicant any special privilege that is denied by this Chapter to other lands or buildings in the same zoning classification.
- f. Any variation in setback and/or height is established based upon the factors set forth in ICC 17.03.180.S.5. The factors from that section are listed below and they must be documented in attachments to the application:
 - i. The typical spacing of buildings on surrounding properties;
 - ii. Visual compatibility;
 - iii. Solar access of adjacent structures;
 - iv. View obstructions; v. Fire and Safety;
 - vi. Roadway and intersection sight distance;
 - vii. Land forms and natural resources.
- g. The granting of the variance shall not knowingly harm, destroy, injure, damage, or deface any archaeological resource.

Island county planning and community development

Field Indicators Worksheet

The Field Indicators Worksheet will help you and the County determine if a wetland or wetland buffer is on your property. Applicants for permits for single family residential uses must either complete this Worksheet or, at their option, hire a wetland professional to complete a Wetland Report that includes the elements of the Worksheet. All other applicants (commercial or non-residential) must do the latter, if the County verifies that the development proposal is for land that contains or is affected by a wetland.

The comments section of this Worksheet may be used to record any particulars or information about your property. You may attach additional pages and photographs.

The County will verify the information provided in this Worksheet or related wetland report.

This Worksheet must be included with every application for development. Prospective purchasers may also ask the County to review the Worksheet to assist them in determining whether the property they are interested in purchasing contains wetlands.

Applicant name (please print): _____

date: _____

parcel or key number: _____

hydrology

The presence of water is the most obvious and common indicator of a wetland. There are several factors that must be considered in describing whether or not you have water on your property. Some wetlands have standing water all year long; others are soggy only during wetter months of the year; and, others appear wet only after storm events.

1. Is there ever standing water on the property?

Yes No

If No, proceed to question #3

If Yes, is it:

4 weeks - 4 months 4 months - 8 months - Seasonally 8 months - Year Round

2. If you answered yes to question #1, are the surrounding adjacent areas:

Topographically higher Yes No

Topographically lower Yes No

Topographically the same elevation Yes No

3. When you dug the hole, did you observe any water within 10 inches of the ground surface?

Yes No

4. Identify any features through which water flows onto your property (Check all that apply)

Stream Culverts Ditches Roadside Ditch
 Storm Drains Ponds, lakes, estuaries Pumps Other _____

5. Identify any features through which water flows off of your property (Check all that apply)

Stream Culverts Ditches Roadside Ditch
 Storm Drains Ponds, lakes, estuaries Pumps Other _____

6. Are there defined ditches/channels on, or near your property that have water?

Yes, there are ditches/channels that have occasional water flow (e.g. after storm events).

Yes, there are ditches/channels that have regular water flow during wet months.

Yes, there are ditches/channels that have water flow all year long.

No, there are no defined channels

If Yes, how wide is defined channel?

Large (>2 ft across) Small (<2 ft across) Grass Lined Swale (dried up pond)

Comments:

hydrology Map

Please refer to the *Hydrology Map Example* found in the *Wetland Identification Guide* for instructions

Draw a close approximation of the features you listed in questions 1-6 of the Hydrology section of the Field Indicators Worksheet. Please label the features and approximate dimensions. You may also include areas where wetland vegetation was observed and sites where you performed your soil samples. An organized and informative drawing will help make our site visit more efficient. For greater accuracy, you may obtain an aerial map of your parcel from the Island County Planning and Community Development offices, and use it as the base layer for your map. The Hydrology Map section of the *Island County Wetland Identification Guide* has further information.

Comments:

Vegetation

Only certain types of vegetation can survive in wetland conditions. In fact, some plants, trees and shrubs live nowhere else except in wetlands, e.g. skunk cabbage. Other types of vegetation are tolerant of both wet and drier conditions, e.g. salmonberry and alder. Most trees and plants look different depending upon the time of the year. This can make it difficult to identify exactly what's on your property. Numerous photographs of the more common types of wetland vegetation are shown during different seasons. **please include these observations in your hydrology Map.**

7. Are there any native wetland plants on the property that are identified in the Wetland Vegetation section of the Wetland Identification Guide? (Check all that apply)

<input type="checkbox"/> Slough Sedge	<input type="checkbox"/> Cooleye's Hedge Nettle	<input type="checkbox"/> Crabapple	<input type="checkbox"/> Red Stemmed Dogwood
<input type="checkbox"/> Labrador Tea	<input type="checkbox"/> Water Parsley	<input type="checkbox"/> Skunk Cabbage	<input type="checkbox"/> American Speedwell
<input type="checkbox"/> Cat Tail	<input type="checkbox"/> Common Rush	<input type="checkbox"/> Willows	<input type="checkbox"/> Red Alder
<input type="checkbox"/> Salmonberry	<input type="checkbox"/> Nootka Rose	<input type="checkbox"/> Bull Rush	<input type="checkbox"/> Western Red Cedar
<input type="checkbox"/> Pacific Silverweed	<input type="checkbox"/> Sitka Spruce	<input type="checkbox"/> Hardhack	<input type="checkbox"/> Grasses (other than lawn)

8. Are there any non-native wetland plants on the property that are identified in the Wetland Vegetation section of the Wetland Identification Guide?

<input type="checkbox"/> Creeping Buttercup	<input type="checkbox"/> Reed Canary Grass	<input type="checkbox"/> Yellow Iris	<input type="checkbox"/> Himalayan Blackberry
<input type="checkbox"/> Eurasian Milfoil	<input type="checkbox"/> Evergreen Blackberry	<input type="checkbox"/> Velvetgrass	
<input type="checkbox"/> Canadian Thistle/ Bull Thistle	<input type="checkbox"/> Hairy Willow-herb		

Comments:

soil

While water and vegetation can be identified by simply observing what is on your property, learning about your soils will take a little more work. Soil characteristics change as a result of the regular presence of water. Minerals in the soil will start to rust and organics are unable to decompose. By digging some holes you can see whether or not the area you are looking at is in fact a wetland. The Wetland Identification Guide's Soil section provides additional information that you may find useful in answering the following questions. You will need to dig a hole 12 inches deep in order to answer the following questions. **please include the locations where you took your soil samples in your hydrology Map.**

9. Indicate the color of the soil at the bottom of the 12 inch deep hole that you dug.

<input type="checkbox"/> Dark Black	<input type="checkbox"/> Grey w/rust spots	<input type="checkbox"/> Brown
-------------------------------------	--	--------------------------------

10. Does the soil smell sulfuric? (like rotten eggs)

<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> At Times
------------------------------	-----------------------------	-----------------------------------

11. If you take a tablespoon size sample of the soil and squeeze it, is it saturated with water?

<input type="checkbox"/> Yes	<input type="checkbox"/> Moderate/Soil is damp	<input type="checkbox"/> No. Soil is dry
------------------------------	--	--

Comments: