

## Review of the County's January 2009 Submittal

Comments received from Ecology on 3-9-09

Clark County response, March 16, 2009.

Ecology final comment: March 17, 2009

### Chapter 40.385 Stormwater and Erosion Control

#### 1. 010.C.1. Exemptions

Subsection b is a new provision not included in the previous draft reviewed by Ecology. It exempts "construction of agricultural buildings or other impervious surfaces for carrying out agricultural activities, ***provided no stormwater is released from the site directly or indirectly to the county's stormwater conveyance system***" (Emphasis added). It accepts Ag./Habitat Protection Plans prepared under another County code or a Farm Plan approved by the Clark Conservation District as evidence that stormwater will not discharge to streams or ditches.

Ecology does not understand how implementation of those plans ensures stormwater will not discharge. The County must provide some support for this assumption.

**The reference to the Agricultural/Habitat Protection Plan under section 40.440.040 or a Farm Plan approved by the Clark Conservation District was intended to provide consistency and support for related programs. However, as noted, if "no stormwater is released from the site directly or indirectly to the county's stormwater conveyance system", then the activities are exempt by definition. Therefore, staff will recommend removal of the reference to said plans in the 2009 Fall Biannual Code Review.**

**Proposed action acceptable. The County shall inform Ecology when this action is taken.**

#### 2. 010.C.2.f.

The County has exempted infill and redevelopment projects from flow control requirements though the 0.1 cfs increase threshold is exceeded. Ecology informed the County that this exemption is not acceptable in its original comments. The County refused to change the exemption.

**This issue will need to be resolved separately. Clark County is working on a strategy to provide for equivalent protection of waterways from increased rates of runoff, while also supporting the established goal of focusing development in urbanized areas, such as infill and redevelopment projects.**

**County's current requirements are not acceptable.**

#### 3. 020.A. General Standards – Stormwater Control

The County changed Section 020, by writing separate subsections for "urban" areas, and "rural" areas. The first issue with this distinction is that the County does not define the terms "urban" or "rural" in this code.

These terms are defined in existing code, CCC 40.100.070, quoted as follows:

- “Urban” or “urban area” means land located within an urban area or growth boundary as designated in the comprehensive plan.
- “Rural” or “rural area” means land not located within an urban area as designated in the Clark County comprehensive plan.

**Response acceptable.**

a) Subsection A.5.b exempts projects in “rural” areas from Minimum Requirements 6 – 10 if the project adds or replaces impervious area of less than 5% of a site, AND if the impervious area:

1. Is set back 200 feet from a water of the state and critical areas;
2. Does not generate runoff in channelized flow or discharge directly or indirectly to the county’s MS4; and
3. Is not located in and does not discharge onto steep slopes or mapped geohazard areas

5 acre site would exempt 11,000 sq. ft. of impervious area; a 10 acre site, exempts impervious areas under 22,000 sq. ft., etc.

Because of the inclusion of #2 immediately above as a condition, Ecology cannot object to this provision, but can express concern about the county’s ability to ensure exempted projects do not discharge to the MS4.

ISSUE: The sentence construction of subsection A.5.b makes it unclear whether projects that do not meet the above criteria (#1 - #3 above) must meet Minimum Requirements #1 - #10. Does the County intend the “or else M.R. #1 - #10 apply” clause to modify all of 5.b, or just #3 above?

**Clark County notes the concern raised by the Department. The intent is that all of the criteria (1-3) must be met to avoid triggering Minimum Requirements #6-#10.**

**Response acceptable.**

The sentence construction also makes it unclear whether the 5% threshold applies separately to new impervious areas and replaced impervious areas, or whether the 5% threshold applies to the total of new plus replaced impervious surface on a project site. We will have to get an interpretation.

Clark County interprets the threshold provision to apply to the total of all new, plus replaced impervious surface on the property.

**Response acceptable.**

- b) Subsection 6b seems unnecessary in regard to rural areas depending upon how subsection 5c is interpreted. If in 5c, you compare the total of new and replaced impervious surfaces on a project against the 5% threshold, then all projects above 5% apply M.R. #1 - #10 to the new and replaced impervious surfaces. In that case, 6b applies the minimum requirements to fewer sites.

Clark County agrees with the Department on the inconsistency noted between 5c and 6b. Staff will recommend removing the rural reference in 6b during the 2009 Fall Biannual Code Review.

**Proposed action acceptable. The County shall inform Ecology when this action is taken.**

- c) Subsection 6b contains an error in the valuation process. The NPDES permit requires that the value of the proposed improvements be compared to the value of the existing site improvements, not the entire site valuation. That means that the value of the real estate is not included in the comparison. This error was also in the draft reviewed last summer, but was not caught by Ecology. Figure 2-2 in the County manual has a correct presentation.

Clark County proposes to change the valuation language in 6b to reflect the correct interpretation in the adopted County Manual during the scheduled Fall 2009 Biannual Code Review process. In the interim, Clark County will utilize the correct interpretation in Figure 2-2 that reads “Tax assessment valuation of the existing site improvements”.

**Proposed action acceptable. The County shall inform Ecology when this action is taken.**

- d) Section A.9.b.(3) was changed to require that a regional facility must have sufficient capacity to provide the treatment and quantity control .... **at the time of connection (emphasis added)**. The addition of the prepositional phrase raises the question of how the County intends to interpret this requirement. A regional facility should not be allowed to meet a project’s stormwater requirements, regardless of available capacity at the time of connection, if the available capacity was intended and is committed to serve other areas not yet developed.

Section A.9.b(4) requires a “written commitment from the owner of the facility, or the responsible official in the case of county-owned facilities” before use of a regional facility is allowed. The owner or responsible official is who determines what projects can or cannot use the regional facility. Clark County considers all capacity that was intended and is committed to serve other areas to be unavailable to previously unconsidered developments, regardless of the timing.

**Response accepted.**

e) Section A.10. Wetland Protection

This is a newly proposed section not seen previously by Ecology. In this section, the County would use the hydrologic guidance in the Ecology manual only after it determines based on a preliminary stormwater plan or information submitted for wetland review per a wetlands ordinance, that the project will degrade wetland function. The County has not submitted any information explaining what it will use in the stormwater plan or the wetland review to make the initial determination that a wetland will be degraded. The Ecology requirement is that once the project has exceeded certain size thresholds, the County must require the hydroperiod to be maintained.

**Ecology has not provided the county with any specific methods or analyses that are appropriate to determine when significant wetland impacts may occur. Clark County Code Chapter 40.450, Wetland Protection, contains extensive guidance on the evaluation of wetlands and the preparation of mitigation plans that is consistent with Ecology Guidance on the protection of wetlands. CCC 40.450 (<http://www.codepublishing.com/wa/clarkcounty.html>) provides site specific protections to ensure all wetland functions, including the maintenance of the hydroperiod, are appropriately identified and addressed. In the event that adverse hydrologic impacts are unavoidable – as identified through the review process in CCC 40.450 by the county’s wetland scientists, the applicant “shall implement flow control or other measures to mitigate the adverse impacts of this alteration in accordance with the wetland hydrology protection guidelines in Volume I, Appendix 1-D of the SMMWW”.**

**Response accepted**

4. Section 020.C. Quantity Control

The previous submission indicated that the County would require the pre-developed land cover condition to assume for flow control would be that condition generating the least amount of stormwater runoff since 1955. Ecology commented that the proposal would not comply with the NPDES permit requirements. Subsequently, the County has changed its position to designate the pre-developed land condition as the land cover condition existing at the time of permit application.

The County’s proposal is not acceptable. To be acceptable, the County would have to also commit to a program for constructing flow control facilities to reduce the impacts of the existing development and previous land clearing within the County’s jurisdiction. The proposal would have to demonstrate that it provides flow improvement benefits on an equivalent or faster rate than using the historic land cover condition as the flow control target for new development and redevelopment projects.

**This issue will need to be resolved separately. For background please refer to Ordinance No. 2009-01-01, wherein Clark County:**

- stated the intent to minimize degradation of receiving waters from impacts attributable to stormwater runoff;
- recognized that the application of appropriate practices and technologies identified in the ordinance and manuals are insufficient to achieve that goal independently;
- stated that the degradation of urban and suburban waters will continue without integrated and coordinated actions identified through watershed planning, assessment and adaptive management;
- stated that cumulative impacts of stormwater runoff from existing development are far greater than the incremental increase in stormwater volume attributable to new development implemented under the provisions of the proposed ordinance and manuals;
- stated that net impacts of stormwater runoff for sites redeveloped under the provisions of the proposed ordinance and manual will be less than existing conditions;
- stated the intent to maintain existing water body conditions through implementation of the proposed ordinance combined with a capital program, mitigating for stormwater flows from existing development.

**County's current requirements are not acceptable.**

#### 5. Section 40.450.040 Wetland Permits

- a) The submittal includes a new proposal in regard to changing wetland buffer requirements depending upon the manner in which adjacent development handles its stormwater. Wetland buffer quality is not an NPDES permit issue. The acceptability of what the County is proposing is likely a Shoreline Management Act compliance issue.
- b) A proposed new subsection in this ordinance allows stormwater dispersion facilities within the wetland buffer. The NPDES permit, Appendix A states:

“Stormwater treatment and flow control facilities shall not be built within a natural vegetated buffer, except for:

Necessary conveyance systems as approved by the Permittee; or

As allowed in wetlands approved for hydrologic modification and/or treatment in accordance with Guidesheet 1B in Appendix I-D of the Stormwater management Manual for Western Washington.”

The County proposal is to allow stormwater dispersion facilities within the buffer. Dispersion facilities can range from splashblocks and small rock pads to rock-filled trenches with level overflows, depending upon the amount of flow to be dispersed. Because the purpose of dispersion is to meet treatment and flow control requirements (in whole or part), these are in fact treatment and flow control facilities that are prohibited by the permit with the exceptions noted above.

Dispersion achieved through BMP's T5.10, T5.11, and T5.12 does not meet treatment or flow control requirements, and the BMP's do not mandate native vegetation use. If the

County's proposal was restricted to allowing use of wetland buffers for meeting the "full dispersion" option (which requires use of native vegetation), that would be acceptable from a treatment and flow control standpoint, but may still run afoul of SMA requirements. We will need to have the SEA Program look at this ordinance change.

**The only proposed change to the buffer standards in CCC 40.450, Wetlands Protection, is to authorize the use of dispersion BMPs in wetland buffers through a county-issued Wetland Permit. The existing ordinance allows stormwater facilities within wetland buffers of wetlands that score less than 20 points for Habitat on the Wetland Rating Form. The vast majority of cases where this standard will be applied do not occur within the County's current Shoreline jurisdiction. When they do, Shoreline specific concerns will be addressed in a manner consistent with the current Master Program through the Shoreline Permit.**

**Clark County's proposal is to require dispersion facilities in wetland buffers to meet the "full dispersion" standards in the manual (utilizing natural vegetation). Clark County would expect Ecology to determine whether or not this meets the requirements of the Shoreline Management Act, as the Department of reviews and approves local master programs (including Clark County's) and permit decisions.**

**Response Accepted.**

## **Clark County Stormwater Manual**

### 1. Section 3.3. Final Technical Information Report

Subsection E describes submittal requirements for documenting the use of On-site Stormwater Management BMP's. The text does not have any submittal requirements in regard to implementation of BMP T5.13 – Soil Quality and Depth. That BMP is required for all sites that exceed the thresholds triggering minimum requirements 1 – 5. The County's response to Ecology's first round of comments indicated that it would revise the text to at least reference the BMP. It did not promise to incorporate Ecology's suggestion to directly reference and require submittal of a "Soil Management Plan," which is provided at the Soils for Salmon website. Ecology renews its suggestion for the County to require project proponents to use the very complete and useful guidance document at that website, and for the County to use the documents and procedures for satisfying its NPDES permit responsibilities to review design submittals and inspect project sites for meeting the soil quality and depth requirement. In any case, the County must provide some revision of this section to have the TIR include a description of how BMP T5.13 will be accomplished on the project site. Lacking that, the County cannot ensure that it is requiring implementation of BMP T5.13.

**This section will be revised in the 2009 Fall Biannual Code Review to require information to be submitted on how the project will meet this BMP requirement. At that time Clark County will consider adding the Soil Management Plan criteria and process referenced above.**

**Proposed action acceptable. The County shall inform Ecology when this action is taken.**

2. Calibration of WWHM to Clark County

Ecology also reminds the County that it must submit its calibration report, along with a copy of the revised model, concerning adapting the WWHM to the County's rainfall/runoff conditions for different soil types. This should be done in advance of making the adjustments available to the public.

**The revised model will be ready for internal review the week of March 16<sup>th</sup>. The calibration report and model will be submitted to Ecology before the new ordinance takes affect or making the model available for use by the public.**

**Response accepted.**

3. Section 4.2 LID Design Guidelines

The County added the third bullet from the top of page 4-25 in response to comment #26c from Ecology. Unfortunately, the County's understanding of the comment is exactly the opposite of what the comment meant. A correct statement would begin as follows:

For soils with an infiltration rate less than 4 inches per hour, .....

**This obvious scrivener's error will be corrected either through an addenda to the manual or during the 2009 Fall Biannual Code Review.**

**Proposed action acceptable. The County shall inform Ecology when this action is taken.**