

Stormwater Reuse: A Presentation to the Virginia Housing Commission



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CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES

DCR - Agency Responsibilities: Stormwater

- Lead State Nonpoint Source Water Quality Agency (§ 10.1 – 104.1)
- Implements Virginia Stormwater Act (§10.1-603.1 et seq.)
- Operates VSMP General Permit for Discharges of Stormwater from Construction Activities and MS4 Permits (responsibility transferred from DEQ in January 2005 as the result of the passage of HB 1177 in 2004)
- Oversees 166 local erosion and sediment control programs



Statutory Authority Related to Stormwater “Reuse”

10.1-603.4. Development of regulations.

The Board is authorized to adopt regulations that specify minimum technical criteria and administrative procedures for stormwater management programs in Virginia. The regulations shall

8. Encourage *low impact development* designs, regional and watershed approaches, and nonstructural means for controlling stormwater; and
9. *Promote the reclamation and reuse of stormwater for uses other than potable water in order to protect state waters and the public health and to minimize the direct discharge of pollutants into state waters; (Effective 7/1/2008)*

“Current Events”

DCR is undertaking a comprehensive rewrite of existing stormwater management regulations.

- Regulations will address stormwater “quality and quantity”
- Encourage the use of Low Impact Development (LID) and Better Site Designs to address nutrient reductions and control runoff characteristics (volume, velocity, frequency, duration, and peak flow rate)



“Current Events”

DCR Stormwater TAC has recommended revisiting the water QUANTITY criteria:

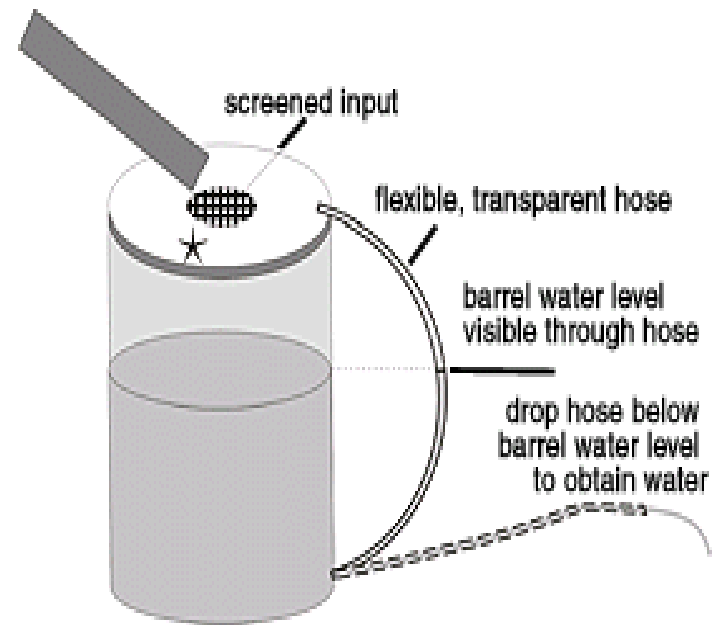
- Considering improvements to channel protection criteria (key quantity issue)
- Considering adding recharge/runoff volume reduction options

What does this have to do with reuse?

- More stringent quality and quantity criteria will likely drive water retention and storage practices; less runoff = less pollution
- If water is stored, it is available for reuse.
- Water in storage must be drawn down so storage capacity is available for next rainfall event
- Planned reuse = available storage

Examples

- Rain barrel



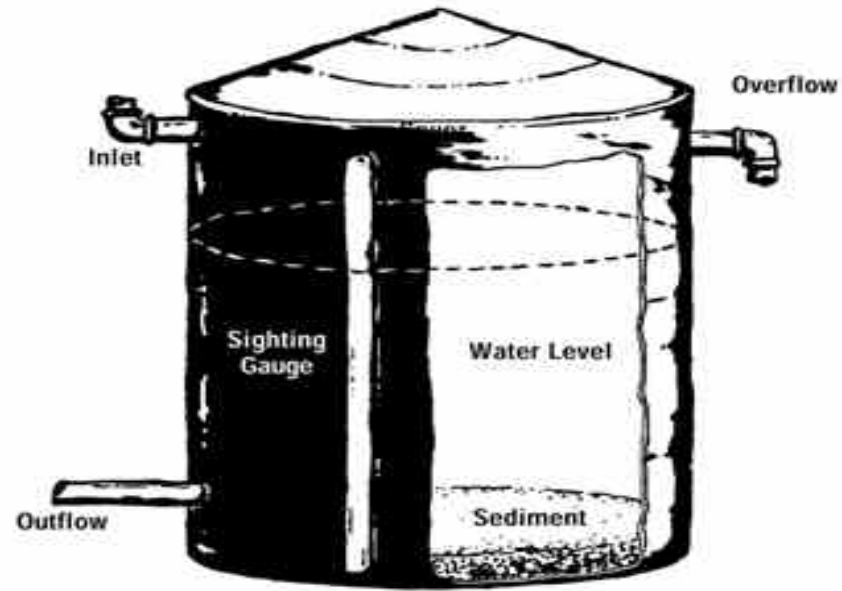
Example

- Cistern



Example

- Cistern



Example

- Tank



Example







Questions?

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