



STORM DRAINAGE DESIGN MANUAL UPDATE

April 13th, 2017



REQUESTED ACTION

- **Receive and discuss further information on three outstanding items:**
 - 1. First Flush Requirement**
 - 2. Retention Basin Easements**
 - 3. Pool Backwash**



POLICY QUESTIONS

3. First flush requirement for first ½” of rainfall

- Currently not required
- Proposed in manual that if retention is provided on site, first flush is required to be retained

4. Retention Basin Easements

- Currently not required
- Proposed in manual that an easement is required over retention basins to ensure the basin remains in place



FIRST FLUSH REQUIREMENT

- **The EPA delegates stormwater enforcement to the individual states.**
- **The Arizona Department of Environmental Quality is the state department that oversees municipal compliance with state regulations for stormwater quality.**
- **The town's calculation for first flush requirement is based off the disturbed area of the proposed development and not the entire site.**
- **The practical implementation of first flush retention/detention will ultimately help the town accomplish other requirements of the MS4, such as illicit discharge detection and elimination.**



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FIRST FLUSH REQUIREMENT

- **The previous text stated, in Section 3-2 B.2.a:**

First flush volume shall be retained on all lots

- **The revised text states, in Section 3-2 B.2.a:**

Where detention is allowed, first flush volume shall be retained on all lots or within common retention areas, and a reasonable attempt shall be made to route all runoff from disturbed areas to first flush basin(s) subject to grading plan approval.

- **Additionally, Section 3-4 B does allow for smaller basins and/or alternative stormwater controls, if they meet the approval of the Town Engineer, to retain/detain the first flush requirement.**



RETENTION BASIN EASEMENTS

- **Issue: Notifying owners in the change of possession of real property that a retention basin exists on the property and has to remain in its location and be maintained**
- **Recommended in Manual**
 - **Retention Basin Easement over retention basins on the property**



POOL BACKWASH

- **Recommend amending Section 15-2-12 of the Town Code which prohibits backwashing pools into the sanitary sewer**
- **Update section 3-5 F of the Manual to allow for pools to be drained into the sanitary sewer system if done so in the cleanout on private property**
- **Both City of Phoenix and City of Scottsdale permit this practice for their residents and were supportive of the town making this change**
- **Also added text to give examples of other ways to backwash a pool such as in a retention basin on site or using a septic hauler**



REQUESTED ACTION

Questions Before Adoption?

