

**Attachment 7: Town of Ashland
Presentations at Various Events**

Water Jam 2014

Bio for Ingrid Stenbjørn, PE

Ingrid Stenbjørn is the Town Engineer for the Town of Ashland, and she manages the Engineering Department of the Department of Public Works for the Town. She has been in this position for 9 years. In addition to overseeing and approving public and private construction projects in the Town, Ms. Stenbjørn manages the stormwater program. She is responsible for the Town's MS4 permit, and she coordinated the adoption of a stormwater program for the Town under the VSMP regulation. In addition, she coordinated a number of innovative stormwater projects for the Town of Ashland. These include converting the municipal parking lot to permeable pavers with a bio-retention area, installing permeable pavers and a bio-retention area in the College Park neighborhood, and the Railroad Avenue Street-scape project that includes permeable pavers and bio-retention areas. The municipal parking lot received several awards for innovation.

Ms. Stenbjørn earned her Bachelors and Masters Degrees in Civil/Environmental Engineering from the University of Virginia. She is a registered Professional Engineer in Virginia and other states, and a member of ASCE. Prior working for the Town of Ashland, she worked in engineering consulting and for the Virginia Department of Environmental Quality.

Ms. Stenbjørn lives in Ashland, and she walks to work almost every day.

Summary of Talk

The Town of Ashland's Engineering Department oversees the BMP inspection and maintenance program for privately owned stormwater best management practices. The Town has been requiring inspections and maintenance of BMPs since the late 1980s. The Town requires that BMP owners enter a maintenance agreement with the Town. Over the years, the agreement has evolved, and will continue to evolve with the Town's new stormwater program. In general, the Town has required that owners conduct regular inspections of BMPs and submit a report prepared by a professional engineer or other approved inspector, if applicable, every three years. Repairs and maintenance activities are required to be completed within a specified time frame.

Engineering Department staff oversees the program. The Town developed an Access database to facilitate the oversight and enforcement of the BMP inspection and maintenance program. The database flags sites that are due for a BMP inspection. Town staff notifies the owner that an inspection is due, and follows up on the inspection reporting and any required maintenance.

With the help of the Town's engineering consultant, Timmons Group, the Town is preparing to roll out a geospatial database that will be tied to the Town's GIS. This will replace the Access database, and it will include updated features to address requirements of the Town's new stormwater program.

PowerPoint Presentation available upon request

VWEA 2015
Working Together to Paint the Town “Green”
Town of Ashland
Ingrid Stenbjørn, PE, Town Engineer

The Town of Ashland is located in Central Virginia, approximately 15 miles north of the City of Richmond. The Town is 7 sq. miles ±, with a population of 7,000 ±. The Town is a Small MS4 community, which operates its storm sewer system under the MS4 General Permit. The Town has adopted a VSMP Program. The Town straddles two HUCs: York River and James River.

When the Town purchased the municipal parking lot in 2010, there were already forebodings that maintenance would be required in the near future. After a drainage improvement project that bisected the lot was finished, it was in ready of maintenance. Public Works pitched the idea to Town Council of converting the parking lot to stormwater quality LID/BMP instead of doing a traditional asphalt overlay. Because Town Council Members had recently attended a Virginia Municipal League educational outreach session on stormwater, Town Council was on board.

The project was funded over a two year period with Town of Ashland general funds (\$200,000) and a grant from the Chesapeake Bay Trust and State of Maryland (\$25,000). In addition, because many people recognized this project as a valuable stormwater retrofit prototype, as well as a project with economic development, promotional, and aesthetic benefits, the Town received support from various parties: A. Morton Thomas & Associates (AMT), the Town’s Engineering consultant; Eagle Bay; Filtterra (now Contech), and others.

The elements of the project include permeable pavers in the parking lot on a stone reservoir drains to a bio-retention area. The original construction estimate was \$300,000, but only \$200,000 was available to construct the project. Therefore, the scope was reduced to include the permeable paver system in 2/3 of the parking lot, while allowing for the remainder of the parking to be completed with a permeable paver system in the future. Construction was completed for \$200,214.80, barely over budget.

The project received much fanfare when completed. There was a ribbon cutting, and the Town and AMT received a total of five awards for the project’s innovation and benefits to the Chesapeake Bay watershed. Several articles about the project appeared in various publications including the Chesapeake Bay Foundation’s Bay Daily in May 2013:
http://cbf.typepad.com/bay_daily/2013/05/small-town-solving-a-big-problem.html .

After the project was complete, one more benefit was added. Hugh Joyce, owner of James River Air Conditioning Company (a local business), donated equipment for an electric car charging station to be installed in the parking lot. Another local business owner, Art McKinney of McKinney & Company, agreed to connect the charging station his buildings. There is no fee for charging an electric car at this station.

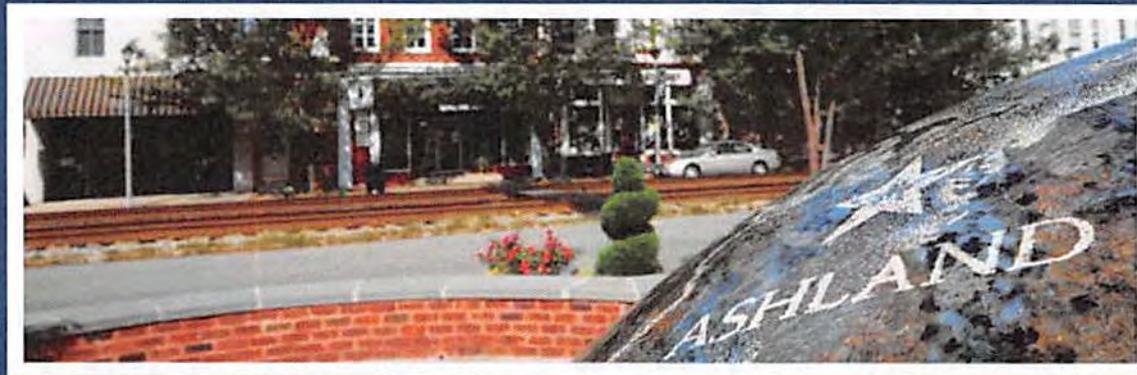
The Town of Ashland has completed two other stormwater LID retrofit projects, and is preparing to begin two more by the end of 2015. For more information contact Ingrid Stenbjørn, PE, istenbjorn@town.ashland.va.us .

Power Point presentation available upon request

VML 2014

Innovative Projects for Stormwater Management

Town of Ashland
Center of the Universe



Presentation available upon request

Post-Construction Stormwater Management Facilities Compliance Tracking & Reporting



EPA Region III Virginia MS4 Forum

May 13-15, 2015



Presentation available upon request