

CITY OF DUNWOODY

41 Perimeter Center East, Suite 250 Dunwoody, GA 30346 Phone: 678.382.6700 • Fax: 678.382.6701 www.dunwoodyga.gov

MEMORANDUM

To: Honorable Mayor and City Council

From: Chuck Davis, Deputy Director of Public Works

Date: August 9, 2010

Subject: Stormwater Inventory Update

Public Works has completed 40% Stormwater Inventory of the City. The purpose of this inventory is to:

- 1. Comply with the requirements of the City's NPDES Permit to inspect at least 20% of the City's stormwater infrastructure every year.
- 2. Provide data for the structures and conveyances that can be used to evaluate replacement costs and remaining service life. This information is being used by the City's Finance Department for asset reporting in the City's financial reports

The Inventory, conducted by TerraMark Land Surveyors, Inc. consisted of GPS surveying all the existing stormwater structures & conveyances and determining the condition and materials of each. The condition of each was rated from Immediate Repair to Excellent. The data is summarized in the attached presentation.

Significant findings from the data include:

- 1. Total area inventoried is 3,640 acres, (42.8% of the City). A total of 3,958 structures and 2,975 conveyances were mapped with a replacement value of \$17.1 million.
- 2. Although 85% of structures and 90% of conveyances were rated in Fair or better condition the average age of the system is just under 34 years old, based on the recorded plats, the system will begin to deteriorate at an increased rate due to the age and the lack of maintenance.

Public Works is going to evaluate the data gathered with respect to the Stormwater Utility Fee in order to determine if the current fee will be adequate for maintaining the system in the future. The creation of a capital improvement plan will be a part of this evaluation process and will be modified as needed as additional inventory is completed.

Stormwater Inventory Update

Public Works Department August 9th, 2010



CITY OF DUNWOODY

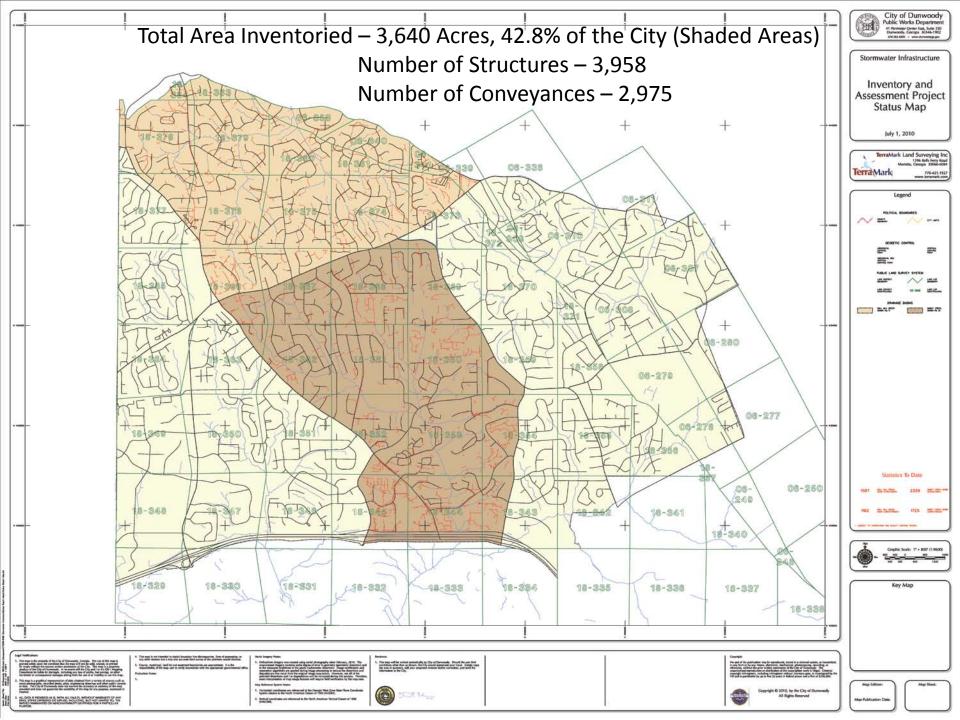
41 Perimeter Center East, Suite 250 Dunwoody, GA 30346 Phone: 678.382.6700 • Fax: 678.382.6701 <u>www.dunwoodyga.gov</u>

Why a Stormwater Inventory

- Comply with the Georgia's NPDES permit requirements.
- Obtain a better understanding of the Stormwater Infrastructure in order to:
 - Anticipate and plan for Capital improvements
 - Plan and conduct repairs before they become an emergency
 - Determine a value for the Stormwater Assets

How was the Inventory Completed?

- Structures and conveyances were inventoried using GPS survey equipment and pole mounted cameras
- The data collected will allow each structure or conveyance to be evaluated as to the remaining serviceable life of each.
- Methodology used allows the data to be seamlessly incorporated into the City's Geographical Information System (GIS) so that it can be easily accessed and updated.



😧 Storm Survey 20100721 - ArcMap - ArcInfo		_ - X			
Eile Edit Wew Bookmarks Insert Selection Tools Window Help					
🗅 🗀 🖶 🎒 🖏 🖄 ษ 🛍 X 🗠 🕫 🤠 🔢 118.873 📃 📝 🧔 🥸 🗖 ≽ 📢					
Editor V 🕨 Task: Create New Feature V Target: V 🖓 🖽 🖾					
Image: Storm Structures Image: Storm Structures		The second secon			
Identified 1 feature		1-			
Display Source Selection © rawing ▼ k ? @ □ A ✓ Oprawing ▼ k ? @ □ A ✓		ľ			
	2248293.924 1431673.209 Feet 10.54 13.37 Inches				
🐉 start 🔰 🖆 Public Works Dept 🔗 Storm Survey 201007 🐼 Inbox - Microsoft Out		9:19 AM			

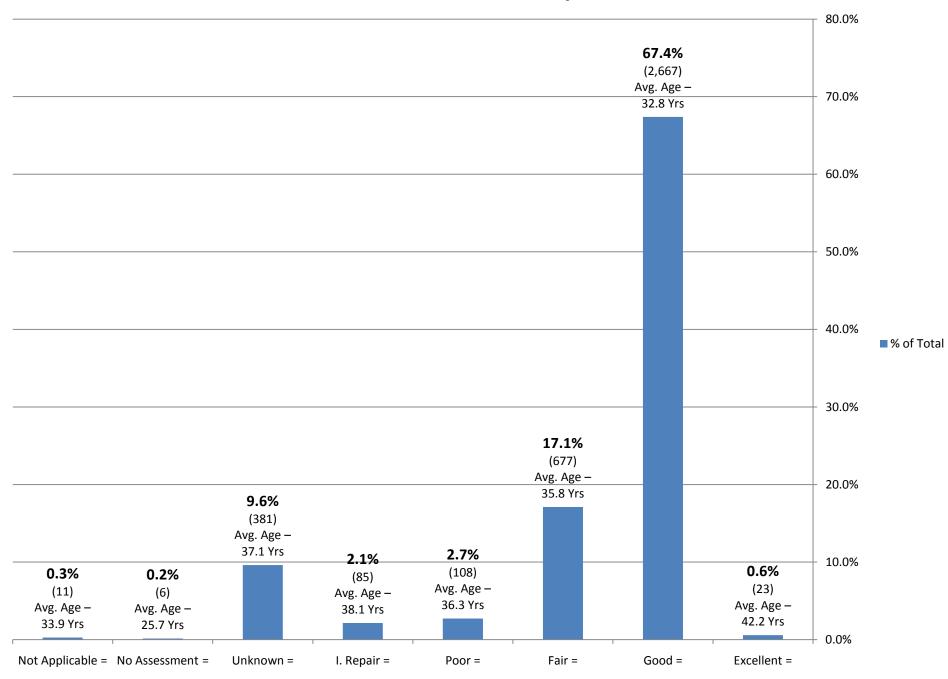
😪 Storm Survey 20100721 - ArcMap - ArcInfo			🔳 🗗 🔀
Elle Edit View Bookmarks Insert Selection Tools Window Help			
🗅 😅 🖬 🚳 🕺 🖻 🛍 X 🗠 🗢 🔶 🚺 118,873 🔄 🛃 🛃 🚱 🕲 🏊 🙌			
Editor 🔻 🕨 🖉 🔻 Task: Create New Feature 💽 Target: 💽 🖉 🔀			
Image: Storm Structures Image: Storm Conveyances Image: Store Conveyances Image: Store Con			
			-
	Γ	2244185.095 1435882.498 Feet	4.98 19.06 Inches
📕 Start 🕞 Public Works Dept 🔗 Storm Survey 201007 🔗 Inbox - Microsoft Out 🕅 Microsoft Office Pictu		nero	🍯 🔹 🕅 🦈 🕼 🐼 🗐 🖾 9:24 AM

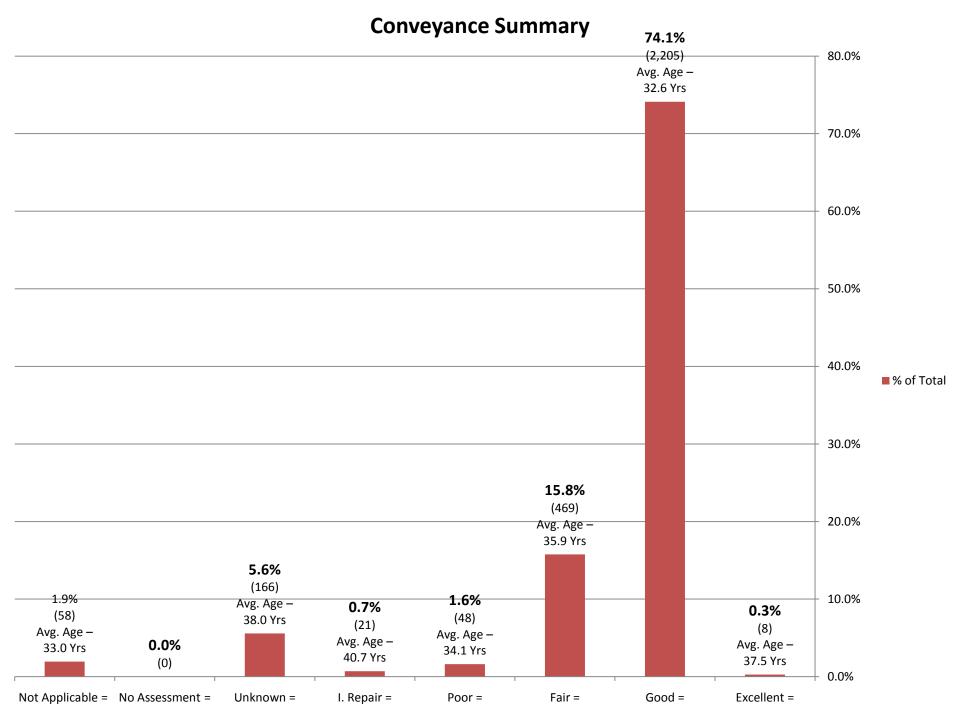
🛃 start 📁 Public Works Dept 🛛 🔍 Storm Survey 201007... 😥 Inbox - Microsoft Out... 🔣 Microsoft Office Pictu...

(BEARCH

🔁 🕈 😰 🏅 🔽 🐼 🌒 🖏 🔱 💟 9:24 AM

Structure Summary





Next Steps....

• Inventory remaining areas

 Develop a Capital Improvement and Maintenance Plan

 Evaluate Stormwater Utility Fee rate structure versus long term maintenance and capital costs