

Fort Ward Park

Drainage Complaint Issues Potential Solutions

T&ES

May 25, 2010



Meeting Objective

1. Meeting Objective

- Discuss drainage problems in and around Ft. Ward Park


Issues:

- Erosion/Flooding/Drainage – Oakland Baptist Church Cemetery
- Flooding / Drainage – Marlboro Estates

Ft. Ward Park Aerial

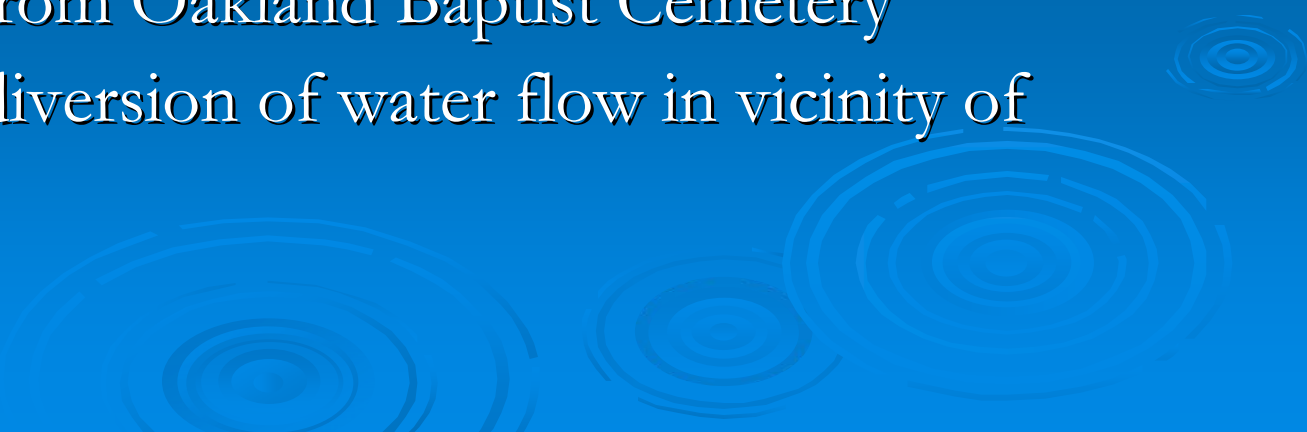


What has been done

- Debris removal from the drainage paths within Ft. Ward Park after rain events
 - “No Mow” designated areas within the park (natural habitat restoration)
 - Application of ground cover to reduce erosion and velocity
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- The background of the slide features several concentric, light blue circular ripples that resemble water droplets hitting a surface. These ripples are positioned in the lower half of the slide, with one large ripple on the right side and two smaller ones on the left side.

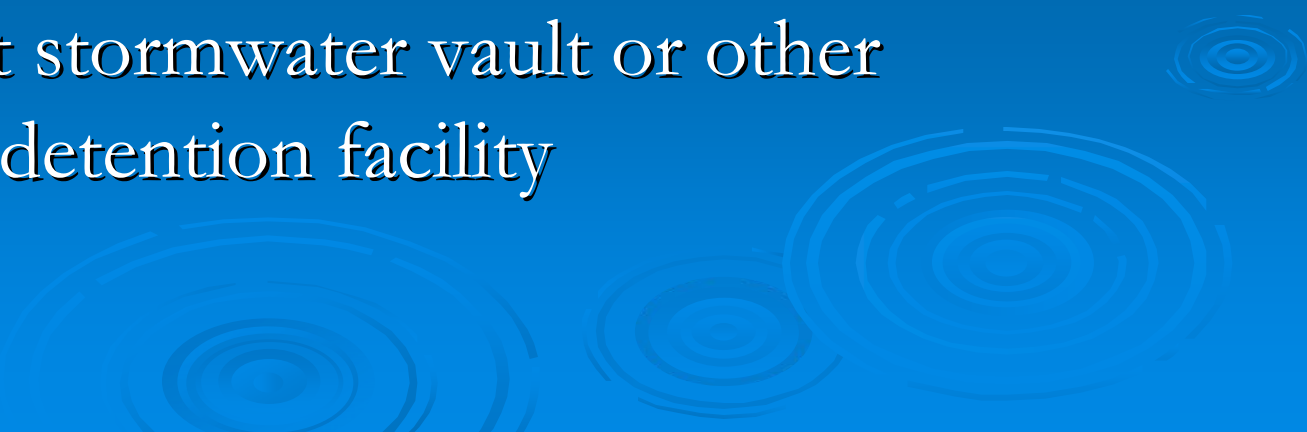
Potential Solutions

Short Term:


1. Extensive Debris Cleanup Activities within stream channel, ditch areas, and inlet structures
 2. Application of ground cover to reduce C-factor and runoff velocity
 3. Construction of temporary dyke or swale to channel runoff away from Oakland Baptist Cemetery
 4. Perimeter diversion of water flow in vicinity of cemetery
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Potential Solutions

Long Term:

1. Increase capacity of ditch and revegetate to mitigate erosion
 2. Install additional drainage structures for stormwater relief
 3. Construct stormwater vault or other stormwater detention facility
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Suggestions For Private Property Owners

1. Property owners need to connect down spouts and sump pumps to adjacent storm sewers
 2. Remove obstructions, blockages, and debris from natural drainage course
 3. Re-examine existing topographic grading on private parcels
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Suggestions For Private Property Owners - cont.

4. Revegetate with plants that are conducive to wet environments and/or improve the soil
5. Consult with a Professional Engineer or Landscaping Consultant to develop an inclusive stormwater management plan

Next Steps

1. Coordinate a site visit with City and Community Stakeholders – Post Masterplan
2. Propose a collective Best Management Practice Plan to address both short and long term potential solutions - Comprehensive
3. Coordinate with Office of Historic Alexandria (OHA) given the high probability of shallow graves in the vicinity
4. Consult with a floodplain and hydrologic consultant to begin an overall stormwater management study for Ft. Ward Park watershed and adjacent drainage area

THANK YOU!

