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## Stormwater Facility Inspection Photo Log

Facility: Lake 1

Facility Owner: Tabb Lakes Homes Association Inc.

Date: 5/16/24

Location: A



Location: B



Location: C



Location: D





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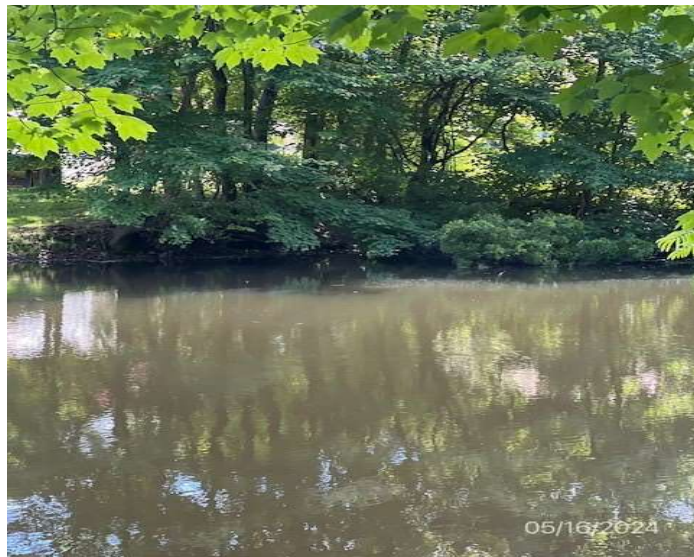
Location: E



Location: F



Location: G



Location: H





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Location: I



Location: J



Location: K



Location: L





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Location: M



Location: N



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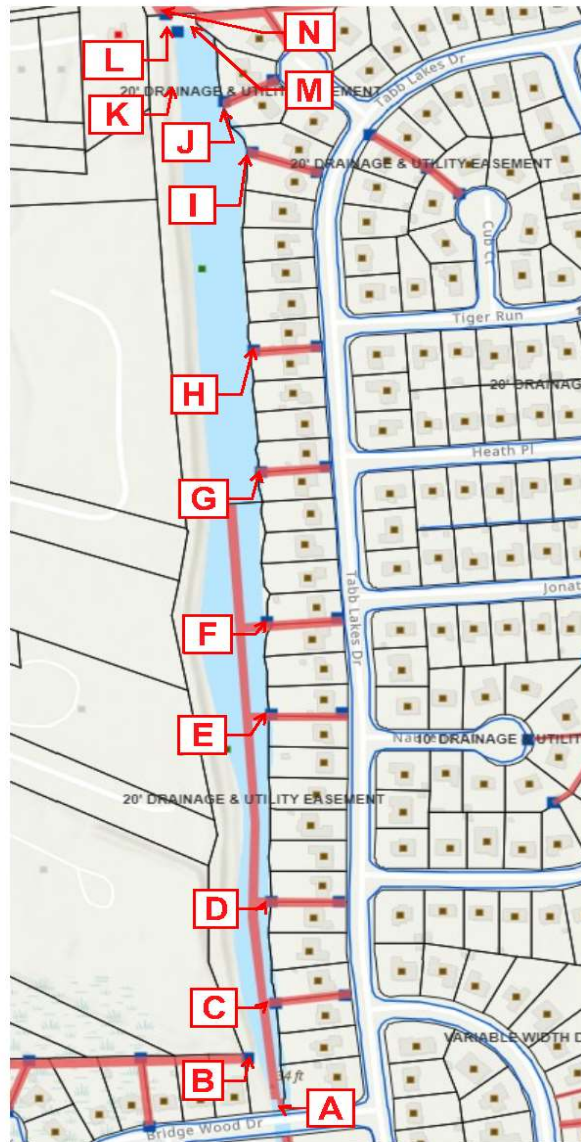


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### -Inspection notes for Lake 1:

Walked Lake 1 with Mr. Lafrenaye on 5/16/24. Lake aesthetic quality is well maintained by the Tabb Lakes HOA. All inlets associated with the lake were not able to be properly inspected due to them being on private property and had to be viewed from the opposite side of the lake. No signs of major erosion or loss of inlet protection were visible from my viewpoint but the next inspection will have to be done from a boat in order to certify structural integrity of inlet structures and inlet protection. Vegetative overgrowth was noted on banks opposite of homes and in locations K and L in the above photo log. Mr. Lafrenaye assured me that these issues have already been recognized and are being addressed within the confines of the HOA stormwater budget. The emergency spillway (location N) is partially clogged with sediment and vegetative debris and will need to be cleaned out.

-A bathymetric sediment report was done in June of 2015 and is summarized below:

### Summary of the Tabb Lakes Bathymetry and Sediment Report (June 2015)

#### Overview

- **Conducted by:** Kyle Finerfrock
- **Location:** Tabb Lakes, York County, Virginia
- **Purpose:** To assess the bathymetry and sediment accumulation in two waterbodies within the Tabb Lakes community.

#### Key Findings

##### General Data

- **Total Area:** 10.3 surface acres
- **Methods:** Contour mapping, 3D depth representation, and sediment mapping.

##### Lake 1

- **Depth Readings:** 4,190
- **Maximum Depth:** 14.8 feet
- **Average Depth:** 6.7 feet
- **Surface Area:** 5.2 acres
- **Storage Volume:** 33.9 acre-feet (11,642,697 gallons)
- **Sediment Volume:** 6,040 cubic yards (average depth: 0.7 feet)
- **Areas of Concern:**
  - Southern inlet: Thick organic muck and leaf debris.
  - Northern outlet: Organic debris buildup.
- **Recommendation:** Removal of sediment and organic debris to maintain proper water flow.

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-In June of 2019 the North End of the lake was dredged. Below is a summary of the project:

The Tabb Lakes Dredging Project focused on the north end of Lake 1, initiated due to debris buildup affecting stormwater drainage. Here are the key points:

### 1. **Initial Estimates and Decision:**

- In June 2019, estimates were obtained from Lake Services Inc. (\$111,000) and Acelutions Inc. (\$85,000) for Lake 1, and significantly higher for Lake 2.
- The board prioritized Lake 1 due to debris accumulation and drainage concerns.

### 2. **Revised Estimates:**

- Access complications led to revised estimates in 2020/2021: Lake Services Inc. (\$129,000) and Acelutions Inc. (\$125,000).
- Acelutions' hydraulic dredging approach was preferred for less environmental impact.

### 3. **Project Execution:**

- Contract with Acelutions Inc. signed on August 19, 2021.
- Dredging began on August 23, 2021, and completed on September 17, 2021, with final inspections ensuring contract compliance.
- Dewatering bags were used for spoils, minimizing water level impact on lakes.

### 4. **Post-Dredging Tree Removal:**

- Trees around the outflow area were removed in July 2022 to prevent future debris buildup, costing an additional \$16,000.

### 5. **Total Costs:**

- Dredging: \$125,000
- Tree removal: \$16,000

The project successfully dredged Lake 1's north end, addressing drainage issues and ensuring better stormwater management.