

LAKE TERRAPIN
 HOMEOWNERS ASSOCIATION
 GPIN 8091-80-4971
 Instr. #200612290179840
 LAKE TERRAPIN SECTION 9
 PARCEL 'A'

MVP, INC.
 GPIN 8091-70-2799
 Instr. #200604130058158

Approx. Location
 Ex. 20' Va. Gas Distribution
 Esmt. (D.B. 179, Pg. 401)

PARCEL "H-3"
 SOUTHLAKE AT MONTCLAIR
 S-5
 SOUTHLAKE COVE
 TOWNHOMES ASSOCIATION
 GPIN 8091-80-2204
 D.B. 1634, PG. 1
 D.B. 1858, PG. 1.332

Ex. RPA
 and
 Flood Hazard
 Area (D.B. 2496, Pg. 1848)

PRINCE WILLIAM
 COUNTY SCHOOL BOARD
 GPIN 8090-78-1541
 D.B. 1733, PG. 1208

Ex. Flood Hazard Area
 (D.B. 1634, Pg. 1)

LAKE
 MONTCLAIR

Approx. Location
 Ex. 30' San. Sew. Esmt.
 (D.B. 1542, Pg. 1726)

THE MONTCLAIR PROPERTY
 OWNERS ASSOCIATION
 GPIN 8091-09-9391
 D.B. 1602, PG. 1.321

Ex. Flood
 Hazard Area
 (D.B. 1634, Pg. 1)

Approx. Location
 Ex. 30' San. Sew. Esmt.
 (D.B. 1542, Pg. 1726)

Lake Montclair Sediment Forebay : Option 2
 Forebay Located Parallel to Powells Creek

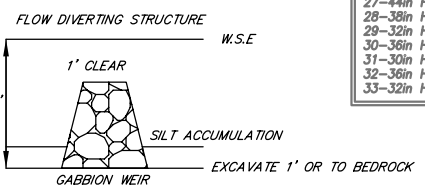
Elevation	Area
188	3152.16
186	4716.53
184	6381.40
182	8146.80
180	10012.73

Assumption: 2:1 Side Slopes
 Total Volume: 51492.23 Cu. ft.
 1907 C.Y.
 Halfway Volume: 18872.43 Cu.Ft.
 700 C.Y.

- OPTION 2 NOTES**
- APPROXIMATELY 1,443 LINEAR FEET OF ACCESS ROAD REQUIRED.
 - ONE CULVERT CROSSING REQUIRED.
 - APPROXIMATELY 11,328 SQ. FT. (0.26 AC.) OF WETLAND IMPACTS

- PROS**
- ASSUMPTIONS OF THIS APPROACH ARE CONSISTENT WITH ASSUMPTIONS OF JULY 2008 REPORT ENTITLED LAKE MONTCLAIR SEDIMENTATION CONTROL FEASIBILITY STUDY BY WHITMAN, REQUARDT AND ASSOCIATES, LLP (WRA).
 - SEDIMENT VOLUME PROVIDED EXCEEDS THE ASSUMED SEDIMENT LOADING FROM POWELLS CREEK (1,200 TO 1,800 CY PER WRA REPORT).
 - LESS ACCESS ROAD TO CONSTRUCT AND MAINTAIN.

- CONS**
- EXCESSIVE GRADING FOR ACCESS ROAD.
 - ACCESS ROAD HAS SIGNIFICANT SLOPE.
 - ACCESS ROAD HAS TO CROSS AN EXISTING GAS LINE.
 - THE TYPICAL FOREBAY VOLUME REQUIRED FOR THE CONTRIBUTING DRAINAGE AREA IS APPROXIMATELY 129,067 C.Y. THE VOLUME PROVIDED IS 1.47% OF THE REQUIRED VOLUME.
 - TOTAL VOLUME PROVIDED (1,907 C.Y.) IS LESS THAN THE REQUIRED VOLUME (2,300 C.Y.) PER WRA REPORT.
 - SIGNIFICANT COST OF ROAD AND FACILITY.
 - MINOR WETLAND DISTURBANCE, WILL LIKELY REQUIRE MITIGATION.



EXISTING TREE SURVEY

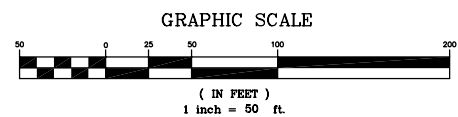
1-8in Locust	34-40in Hickory
2-24in Maple	35-32in Hickory
3-30in Maple	36-30in Hickory
4-24in Poplar	37-36in Hickory
5-20in Birch	38-30in Hickory
6-30in Maple	39-30in Hickory
7-24in Maple	40-27in Maple
8-30in Poplar	41-30in Maple
9-24in Maple	42-30in Maple
10-36in Poplar	43-26in Maple
11-24in Maple	44-36in Maple
12-38in Hickory	45-32in Maple
13-22in Maple	46-30in Hickory
14-24in Hickory	47-36in Sycamore
15-26in Oak	48-42in Maple
16-44in Oak	49-36in Sycamore
17-44in Oak	50-36in Sycamore
18-26in Sycamore	51-36in Oak
19-64in Oak	52-24in Maple
20-32in Maple	53-30in Poplar
21-40in Hickory	54-36in Poplar
22-36in Maple	55-26in Poplar
23-28in Sycamore	56-30in Poplar
24-30in Sycamore	57-24in Maple
25-24in Maple	58-30in Sycamore
26-36in Oak	59-30in Maple
27-44in Hickory	60-30in Poplar
28-38in Hickory	61-24in Birch
29-32in Hickory	62-14in Maple
30-36in Hickory	63-12in Maple
31-30in Hickory	64-10in maple
32-36in Hickory	65-14in Cherry
33-32in Hickory	66-8in Cherry

SANITARY SEWER ASBUILT

(A) San MH Top=211.3 Inv In=202.8 Inv Out=202.6
(B) San MH Top=200.1 Inv In=195.1 Inv Out=190.9
(C) San MH Top=199.4 Inv In=189.5 Inv Out=189.2
(D) San MH Top=194.6 Inv In=187.6 Inv Out=187.5
(E) San MH Top=219.5 Inv In=199.4
(F) San MH Top=195.6 Inv In=186.8(From E) Inv In=186.2(From D) Inv Out=186.1
(G) San MH Top=192.7 Inv In=184.7

STORM SEWER ASBUILT

(1) Catch Basin Top=222.4 Inv Out=216.2
(2) Storm MH Top=222.1 Inv In=210.6 Inv Out=200.9
(3) End-Section Inv In=199.9 Inv In=199.9
(4) Storm MH Top=216.6 Inv In=206.2
(5) Storm MH Top=210.0 Inv In=205.8 Inv Out=198.1
(6) End-Section Inv In=197.5
(7) Conc Headwall Top=204.7 Inv=201.7
(8) Pond Structure Top=214.7 Inv Out=206.2
(9) Conc Headwall Top=204.4 Inv=202.1
(10) Storm Grate Top=215.9 Inv=204.6



OPTION 2
 PRELIMINARY DESIGN PARALLEL
 TO CREEK OPTION
 FOR
**LAKE MONTCLAIR
 SEDIMENT FOREBAY**
 DUMFRIES DISTRICT
 PRINCE WILLIAM COUNTY, VIRGINIA
 AUGUST 11, 2009
 SHEET 1 OF 1

DRAWING NAME: M:\WORK\09066\09066MA\Exhibits\Option 2.dwg 8/4/2009 2:37:41 PM EDI