LOG OF BORING Project: Bayport Ship Channel Phase 2 Project No.: HG1019742 Boring No.: 12-62 (Depth of Water = 6.5 feet) Date: 12/2/2012 Elevation (MLT): -3.9 feet Groundwater during drilling: 0 feet Northing: 13,792,570.7 Station: 84+27.86 Groundwater after drilling: ---Easting: 3,237,372.8 Range: -304.36 % PASSING NO. 200 SIEVE / DENSITY PCF ELEV. SOIL SYMBOLS SHEAR STRENGTH, TSF DEPTH, SAMPLER SYMBOLS SOIL/ROCK CLASSIFICATION DRY FEET AND FIELD TEST DATA MOISTURE O CONTENT, % PLASTIC LIMIT | F LIQUID LIMIT Medium dense reddish brown SILT WITH SAND (ML) 79 Stiff reddish brown SILTY CLAY (CL-ML) 102 Stiff to very stiff reddish brown FAT CLAY (CH) 98 98 95 Firm to very stiff reddish brown LEAN CLAY (CL) 8-11-12 95 Stiff to very stiff reddish brown FAT CLAY (CH) 95 98 91 LOG OF SOIL BORING HG-10-19742.GPJ HVJ.GDT 3/5/13 88 Stiff to very stiff reddish brown and gray SANDY LEAN CLAY (CL) 66 8-12-12 = Hand Penet. # = UU Triaxial **Shear Types:** = Torvane ▲ = Unconf. Comp. PLATE A-4a See Plate 2 for boring location.

HVJ ASSOCIATES

LOG OF BORING Project: Bayport Ship Channel Phase 2 Project No.: HG1019742 Boring No.: 12-62 (Depth of Water = 6.5 feet) Date: 12/2/2012 Elevation (MLT): -3.9 feet Groundwater during drilling: 0 feet Northing: 13,792,570.7 Station: 84+27.86 Groundwater after drilling: ---Easting: 3,237,372.8 Range: -304.36 % PASSING NO. 200 SIEVE / DENSITY PCF ELEV. SOIL SYMBOLS SHEAR STRENGTH, TSF DEPTH, SAMPLER SYMBOLS SOIL/ROCK CLASSIFICATION 1.0 DRY AND FIELD TEST DATA FEET MOISTURE O CONTENT, % PLASTIC LIMIT | F LIQUID LIMIT 40 60 70 80 90 Very stiff reddish brown FAT CLAY (CH) 91 8-12-14 6-6-8 Medium dense reddish brown CLAYEY SAND (SC) 30 8-12-14 49 Medium dense reddish brown SAND WITH SILT (SP-SM) 10 -60 Medium dense brown SILTY SAND (SM) 19 LOG OF SOIL BORING HG-10-19742.GPJ HVJ.GDT 3/5/13 ● = Hand Penet. = Torvane \blacktriangle = Unconf. Comp. Shear Types: # = UU Triaxial See Plate 2 for boring location. PLATE A-4b