

LOG OF BORING

Project: McFaddin NWR Sand Source Investigation
 Boring No.: MF-VC-13-11
 Groundwater during drilling: ---
 Groundwater after 24hrs: ---

Date: 11/9/2013
 Northing: 13,787,856.0
 Easting: 3,477,377.0

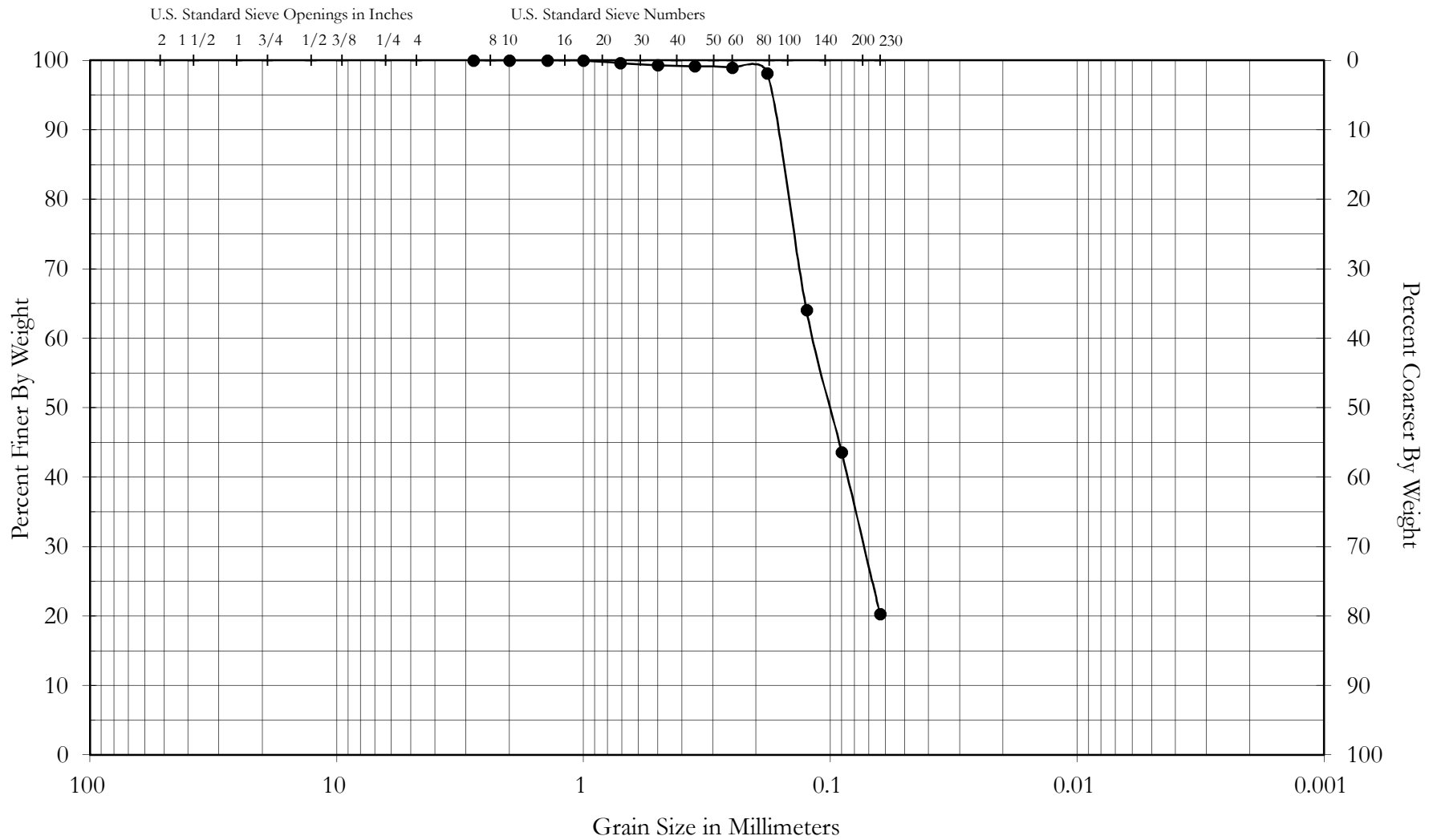
Project No.: HG1315380
 Elevation: -24.2 feet
 Station: --
 Offset: --

ELEV. DEPTH, FEET	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	SOIL/ROCK CLASSIFICATION	% PASSING NO. 200 SIEVE	D ₅₀ , MM	<div style="text-align: center;"> SHEAR STRENGTH, TSF </div> <div style="text-align: center;"> MOISTURE CONTENT, % PLASTIC LIMIT ——— LIQUID LIMIT </div>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0</div> <div style="margin-bottom: 10px;">-25</div> <div style="margin-bottom: 10px;">-30</div> <div style="margin-bottom: 10px;">-35</div> <div style="margin-bottom: 10px;">-40</div> <div style="margin-bottom: 10px;">-45</div> <div style="margin-bottom: 10px;">-50</div> <div style="margin-bottom: 10px;">-55</div> <div style="margin-bottom: 10px;">-35</div> </div>		<p>Gray Sandy Clay (Munsell 5/1 5Y)</p> <p>Light Brown Silty Sand (Munsell 6/4 7.5YR) -200=32.5%</p> <p>Light Brown Sandy Clay (Munsell 6/4 7.5YR)</p> <p>Light Brown Sand (Munsell 6/4 7.5YR)</p> <p>Grayish Brown Sandy Clay (Munsell 5/2 10YR)</p> <p>Gray Sand (Munsell 5/1 2.5Y) -200=48.5%</p> <p>Gray Sandy Clay (Munsell 5/1 2.5Y)</p> <p>Gray Sand (Munsell 5/1 2.5Y)</p> <p>Gray Sandy Clay (Munsell 5/1 2.5Y)</p> <p>Gray Sand (Munsell 5/1 2.5Y) -200=23.5%</p> <p>Gray Sandy Clay (Munsell 5/1 2.5Y)</p> <p>Dark Gray Sandy Silty Clay (Munsell 4/1 2.5Y)</p>	<p>20.3</p> <p>30.4</p> <p>10.5</p>	<p>0.10</p> <p>0.08</p> <p>0.12</p>	

LOG OF SOIL BORING HG-13-15380.GPJ HVJ.GDT 12/19/13

Shear Types: ● = Hand Penet. ■ = Torvane ▲ = Unconf. Comp. * = UU Triaxial





Sample Location

MF-VC-13-11
1-3.4'

C_u & C_c

$C_u = NA$
 $C_c = NA$
 $D_{50} = 0.10mm$

Classification

Light Brown Silty Sand (SM)

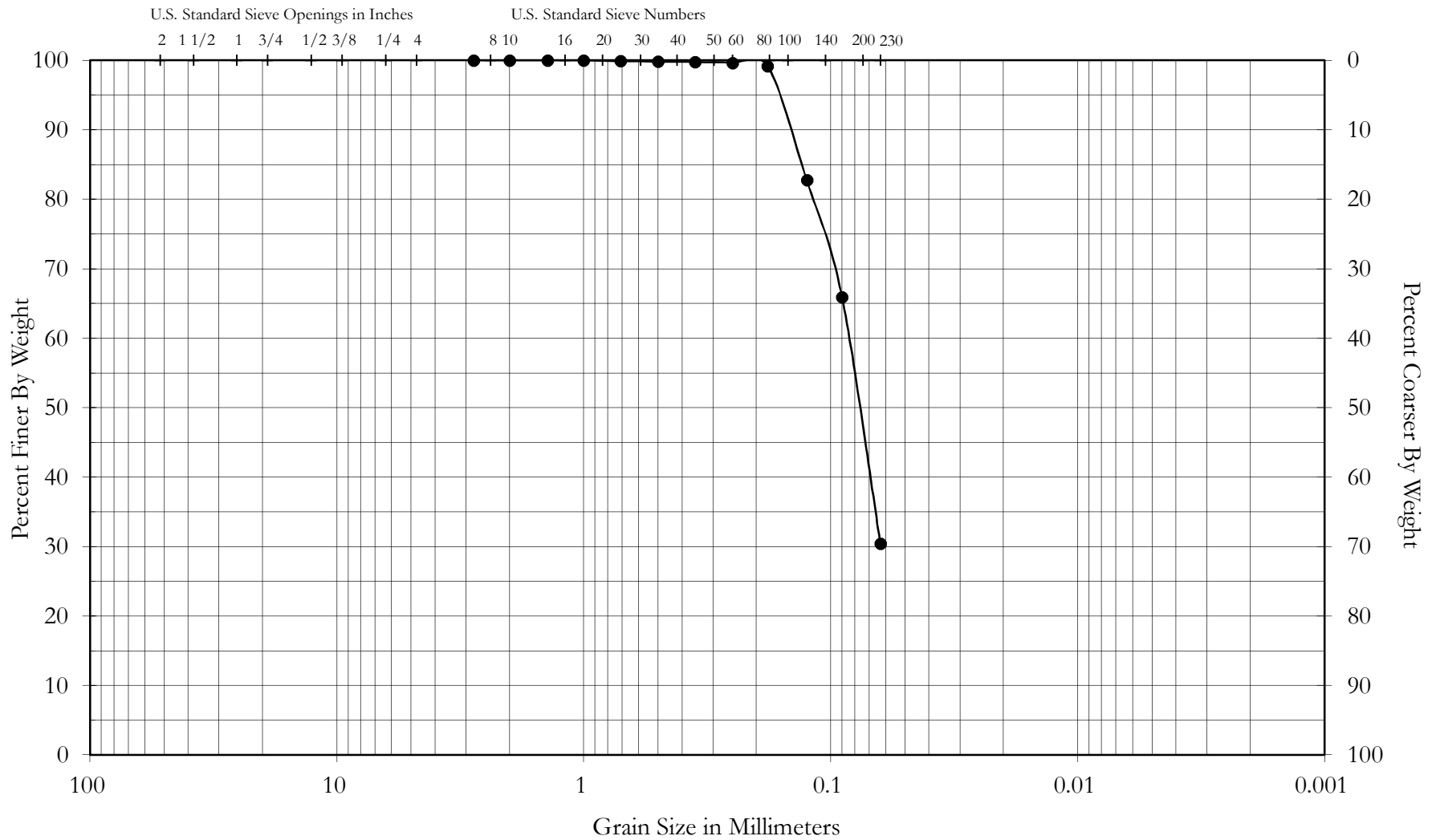
HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 60



Sample Location

MF-VC-13-11
6.4-7.25'

C_u & C_c

C_u = NA
C_c = NA
D₅₀ = 0.075mm

Classification

Light Brown Silty Sand (SM)

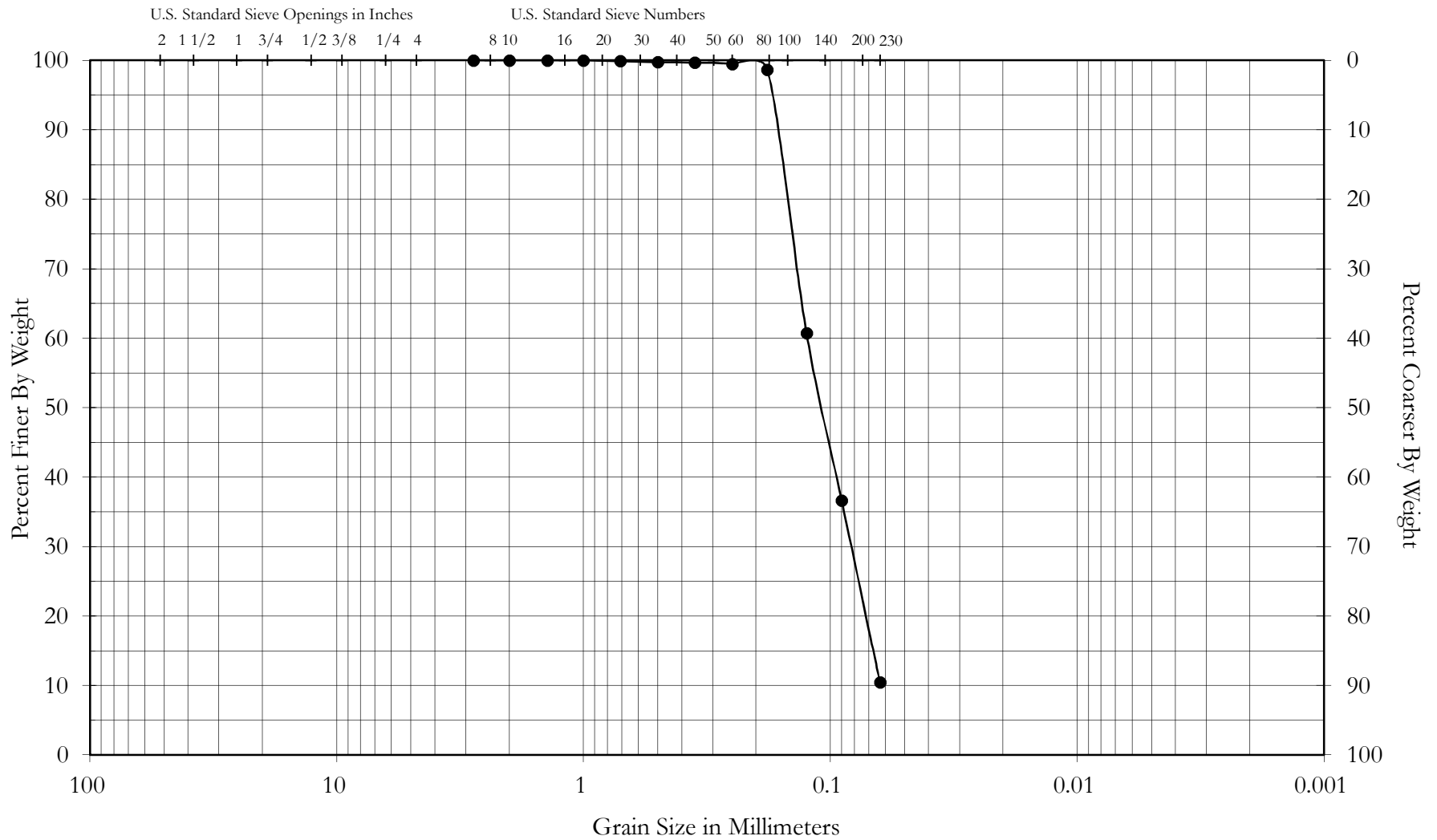
HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 61



Sample Location

MF-VC-13-11
12-12.8'

C_u & C_c

$C_u = 2.22$
 $C_c = 0.76$
 $D_{50} = 0.12\text{mm}$

Classification

Gray Silty Sand (SM)

HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 62