Section IV. Liquefaction

Report ID __ __ __ – __ __ [initials - nth report] **Investigation Date** (yyyymmdd) __ __ __ __ __ __ __ __ __ __

Investigator Last __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ First __ __ __ __ __ __ __ __ __ __ __ __

Waypoint No __ __ __ – __ __ – __ __ [initials - nth report - nth waypoint]

☐ Latitude / Longitude __ __ . __ __ __ __ __ __ / –__ __ __ . __ __ __ __ __ __

☐ Northing / Easting __ __ __ __ __ __ __ . __ __ __ / __ __ __ __ __ __ __ . __ __ __

Approximate Elevation __ __ __ __ m

A. Sand Blows and Fissures

Sand Blows or Fissures ☐ Yes ☐ No ☐ None Observed or Reported

Type of Material Ejected ☐ Sand ☐ Silt ☐ Other __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __

Sediment Color __

Number of Sand Blows/Fissures at Site ☐ 1-5 ☐ 5-10 ☐ 10-20 ☐ >20

Maximum Size of Sand Blow/Fissure Length __ __ . __ __ ☐ m ☐ cm Width __ __ . __ __ ☐ m ☐ cm

Volume of Material Ejected (cm^3) ☐ Small (< 5000) ☐ Medium (5000-10,000) ☐ Large (>10,000)

Ground Settlement ☐ Yes ☐ No ☐ Unknown Amount __ __ __ cm

Affected Surface Area Viewed (m^2) ☐ 1-10 ☐ 10-100 ☐ 100-1000 ☐ 1000-10,000 ☐ >10,000

B. Lateral Spreading

Lateral Spreading ☐ Yes ☐ No ☐ Ground Cracks of Uncertain Origin

Strike of Ground Cracks __ __ __ °(azimuth) or ☐☐ (N,NE,E,SE,S,SW,W,NW)

Down Slope Direction of Ground Displacement __ __ __ °(azimuth) or ☐☐ (N,NE,E,SE,S,SW,W,NW)

Horizontal Displacement __ __ . __ __ ☐ m ☐ cm **Vertical Displacement** __ __ . __ __ ☐ m ☐ cm

Dimensions of Ground Crack Zone Length __ __ m **Width** __ __ . __ __ ☐ m ☐ cm

Dimensions of Spread Mass Length __ __ m **Width** __ __ . __ m

Free Face ☐ Yes ☐ No **Slope of Free Face** ☐ Flat ☐ Gentle ☐ Moderate ☐ Steep ☐ Vertical

Free Face Height __ __ . __ m **Length** __ __ . __ m

Direction from Ground Cracks to Free Face __ __ __ ° (azimuth) *or* ☐☐ (N,NE,E,SE,S,SW,W,NW)

Distance from Ground Cracks to Free Face (m) __ __ __ *or* ☐ <15 ☐ 15-30 ☐ 30-100 ☐ >100

Compression Features ☐ Yes ☐ No ☐ Not Observed

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Notes/Sketches: Liquefaction