National Gallery of Art

Flood Prevention Strategy After June 2006 Flood

David Samec, P.E., CFM
Chief of Facilities Management
Extent of Flooding “Up the Hill”

NGA Located in Dashed Area
NGA Flood Prevention Strategy
Assess Areas of Highest Risk
NGA Flood Prevention Strategy
What to Use? (circa 2006)

Water-filled cofferdams  Water-absorbing gel bags
NGA Flood Prevention Strategy
Caches and Pre-Positioning
NGA Flood Prevention Strategy
Caches and Pre-Positioning
Aqua Dam Increased Facility Entrance Elevations as Required for a Flood Event

13.0'

11.5'
Modular Flood Barriers Used by DC Metro 9th Street and Constitution Ave.
NGA Flood Barrier Rehearsal 2017

• One person *could* put this together
Vulnerabilities

• If barriers fail, everything is vulnerable
• Anything more than a 200-year storm event would cause catastrophic flooding
• Constant concern about Constitution Avenue Storm Sewer backup into building floor drains