HI-STORE
Chapter 2 & Environmental Report RSIs

- **Purpose and Discussion**
  - This presentation outlines the methodologies that will be utilized to respond to Chapter 2 RSIs 2-1 through 2-11 and Environmental Report RSIs ER-1 through ER-9.
  - The information requested will be used to determine compliance with the applicable sections of 10CFR72, NUREG-1567, and Regulatory Guide 3.48.
  - Specific focus on RSIs 2-9, 2-10, 2-11

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- **RSI 2-1**
  - Requested information includes:
    - Entire GNEP Siting Study
  - Strategies to respond
    - Holtec will provide entire GNEP Siting Study
- **RSI 2-2**
  - Requested information includes:
    - Discussion on mining processes at Belco and Intrepid facilities.
      - Potential effects on Holtec CISF
  - Strategies to respond
    - Additional details, history, tables, and figures will be included in the chapter to discuss the mines and their potential impacts.

- **RSI 2-3**
  - Requested information includes:
    - Provide assessment of the hazards from aircraft, flight related activities to proposed CISF.
  - Strategies to respond
    - Additional aircraft flight patterns and data
      - Research from FAA master records and Military Training Routes (MTRs) will be included.
    - Hazards assessment will be performed using this data

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- **RSI 2-4**
  - Requested information includes:
    - Provide assessment of the hazards from cargo transported through roads and railroads near proposed CISF.
  - Strategies to respond
    - Additional freight patterns and data pulled from:
      - National Hazardous Materials Route Registry (NHMRR)
      - United States Department of Transportation (USDOT)
      - New Mexico Department of Transportation (NMDOT)

- **RSI 2-5**
  - Requested information includes:
    - Information describing hydrologic characteristics of the site.
  - Strategies to respond
    - Additional data compiled from:
      - Federal Emergency Management Center Flood Map Service Center
      - State of New Mexico Interstate Stream Commission, Lea County Regional Water Plan 2016
      - U.S. Fish and Wildlife Service, National Wetlands Inventory
      - Western Regional Climate Center, Hobbs, Lea County Airport Data
      - Etc.

- **RSI 2-6**
  - Requested information includes:
    - Elevation of SSCs with respect to site Probable Maximum Flood (PMF)
  - Strategies to respond
    - Additional discussion on topography, site elevations, SSC elevation, and expected flood levels.

- **RSIs 2-7 and 2-8**
  - Requested information includes:
    - Probable Maximum Flood
    - Site specific topography
    - Site specific hydrologic information
    - Laguna free board space
  - Strategies to respond
    - Analysis using GIS data to determine PMF Level.
      - Digital elevation model
      - 24-hour storm data

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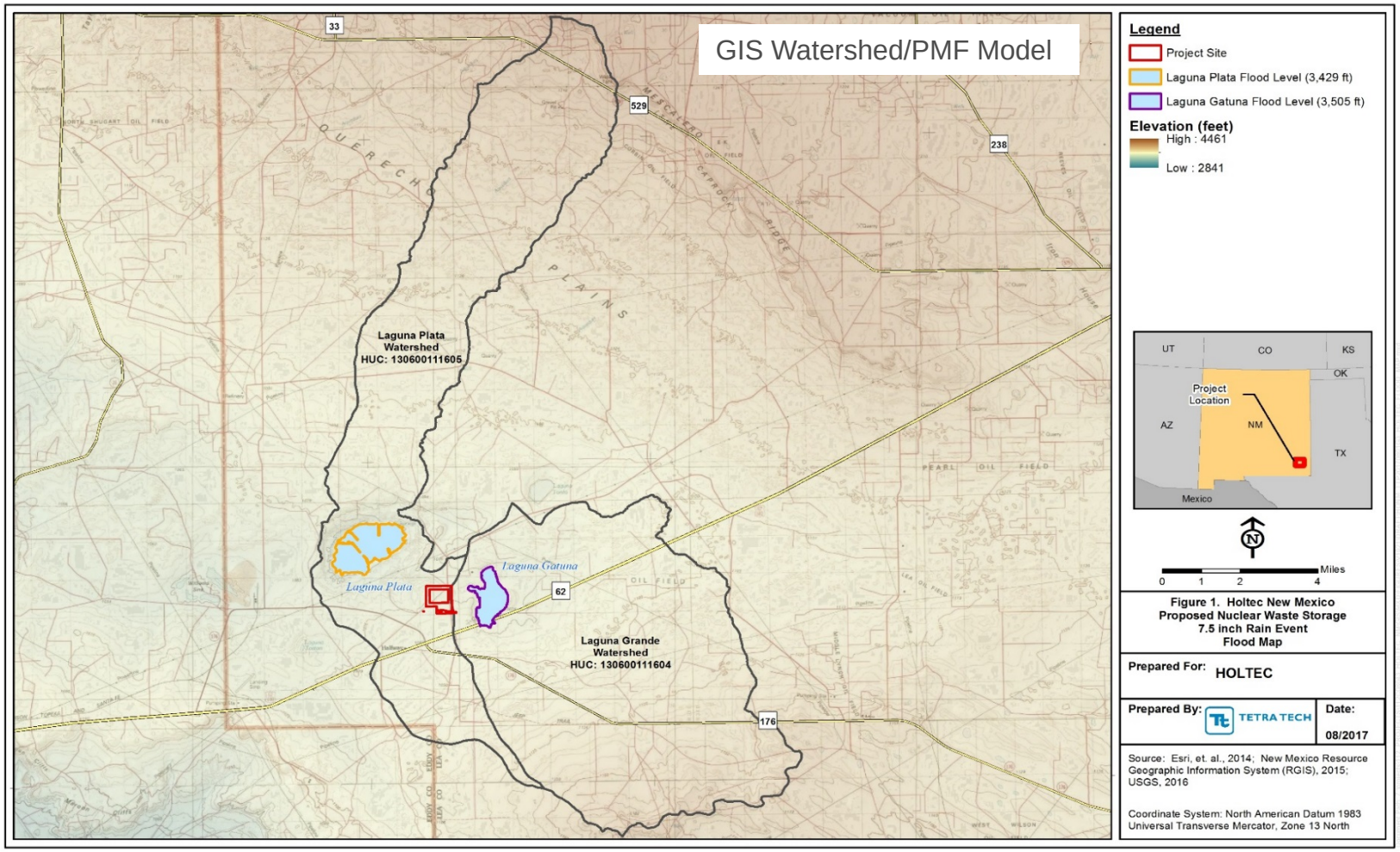

HI-STORE ER RSIs

- **RSI ER-1**
  - Requested information includes:
    - Schedule of construction phases
  - Strategies to respond
    - Construction Phases and Timelines to be detailed
      - Construction impact per phase to be considered
- **RSI ER-2**
  - Requested information includes:
    - Publicly available replacement pages
  - Strategies to respond
    - Review and revise any sensitive figures

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- **RSI ER-3**
  - Requested information includes:
    - Proposed site and impact of new access road and railroad spur
  - Strategies to respond
    - Map of site, access road, and railroad spur
    - Describe expected impacts

- **RSIs ER-4 & 5**
  - Requested information includes:
    - Wind roses and dispersion characteristics
  - Strategies to respond
    - Provide evaluation of wind characteristics
    - Wind roses
    - Dispersion characteristics and mixing heights
    - Data from:
      - Midwestern Regional Climate Center Hobbs, Lea County Airport Data
      - University of Toledo Atmospheric Stability Classification

- **RSIs ER-6 through ER-9**
  - Requested information includes:
    - Additional information pertaining to ecological studies, construction waste sources and quantities, and alternative siting locations.
  - Strategies to respond
    - Further discussion and clarification of relevant subjects in their respective Environmental Report Chapters
      - Ecological study covers entire disturbed area, all phases
      - Construction timeline (ER-1) to present waste generation timeline
      - Clarification of alternative siting considerations

- **RSIs 2-9 & 2-10**
  - Requested information includes:
    - Detailed characterization of site subsurface material
    - map of geotechnical exploration
    - Geological profiles
    - Groundwater mapping

- **RSIs 2-9 & 2-10 (cont.)**
  - Strategies to respond
    - Boring plan generated using standard Holtec protocol
      - Protocol has been used at many other ISFSI sites (SONGS, BFN, CPS, WBN, Etc.)
      - 9 Standard Penetration Test (SPT) Borings
        - Cross-Hole Seismic Test
        - NUREG-1567 required laboratory testing
      - Groundwater observation wells
    - NUREG-0800 Section 3.2.7 COV values taken as 1

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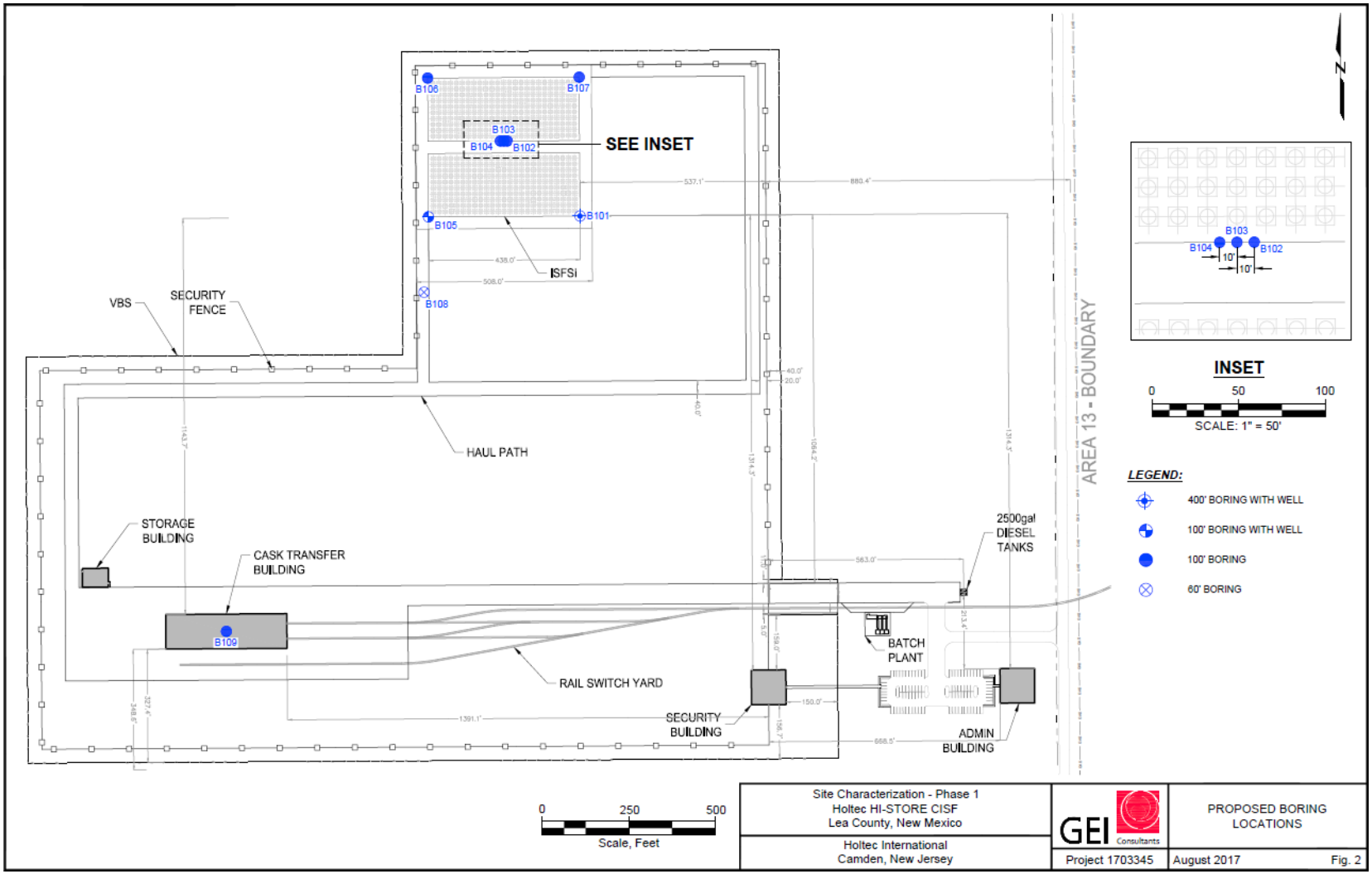

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Lab Test Type	Standard
Moisture Content	ASTM D 2216
Sieve Analysis	ASTM D 422
Atterberg Limits	ASTM D 4318
Thin-Walled Shelby Tube Sampling	ASTM D 1587
Unconfined Compressive Strength of Cohesive Soil	ASTM D 2166
California Bearing Ratio	ASTM D 1883
Rock Compressive Strength and Moduli Test	ASTM D 7012
1-D Consolidation Test	ASTM D 2435
Consolidated-Undrained Tri-axial Testing	ASTM D 4767
Density (Unit Weight)	ASTM D 7263
Specific Gravity	ASTM D 854
Compaction Character (Modified proctor)	ASTM D1557
Consolidated Drained Strength	Bishop&Henkel
Petrographic Analysis	Best Industry Practice
Cyclic Triaxial Test	ASTM D3999

- **RSI 2-11**
  - Requested information includes:
    - Liquefaction potential
    - Bearing Capacity
    - Settlement
    - Seismic pressures for below grade structures
    - Sliding Assessment
  - Strategies to respond
    - Soil borings and laboratory testing to determine in-situ soil properties
    - Modeling and Analyses using the inputs gathered from investigations

QUESTIONS?