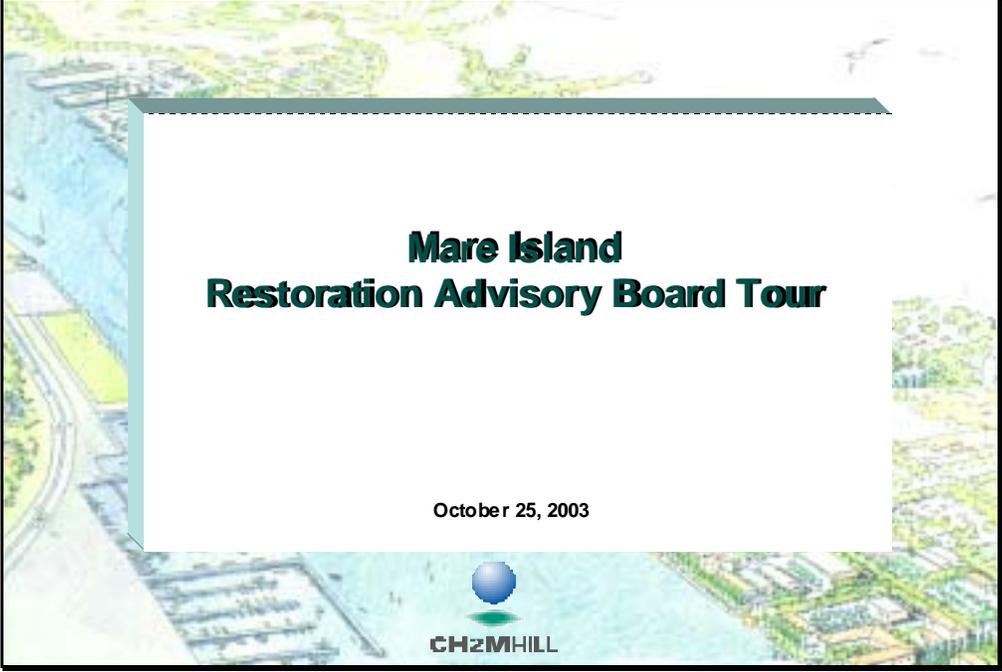




Tour Stop 5 – 9th and Tisdale/Elementary School Site
Representatives from Lennar Mare Island discuss the excavation project completed to remove fuel-contaminated soil at 9th and Tisdale Streets. The excavation work was performed in conjunction with regrading the area for future reuse.



Mare Island Restoration Advisory Board Tour

October 25, 2003



9th & Tisdale Site Summary

- Site discovered in January 2003 during Geotechnical Investigation of Residential Parkway alignment
- Primary contaminants were TPH (diesel and motor oil) in unconsolidated bay sediments and dredge materials
- Extent of TPH contamination in soil evaluated in several phases of investigation performed during February, March, and May 2003
- Release mechanism most likely historic surface discharges to former ground surface





9th & Tisdale Site Summary

continued

- Interim Remedial Action Work Plan prepared in June 2003
- Remedial Action Work Plan prepared in August 2003
- Removal of TPH contaminated soil began in July 2003
- Excavation activities ended in September 2003
- Approximately 49,000 cubic yards of soil were excavated and disposed offsite
- Backfill of site was completed in early October 2003
- Closure Report being prepared for soil removal



9th & Tisdale Site Summary

continued

- Ground Water Monitoring Plan prepared in October 2003
- Installation of ground water monitoring wells is currently underway
- Ground water sampling will occur over next 4-5 months
- Closure Report for ground water conditions will be prepared Spring 2004



9th Street/Tisdale Location Summer 2003 Excavation



Restoration Advisory Board Tour, Mare Island Naval Shipyard

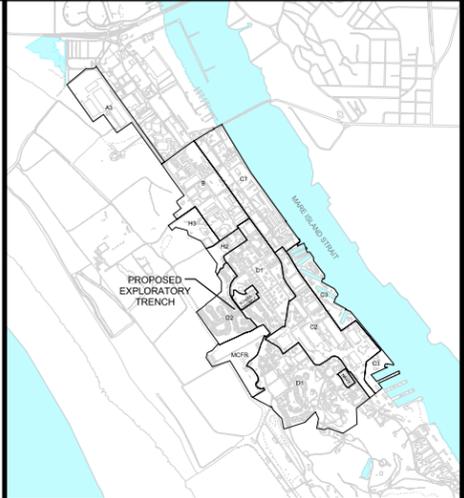
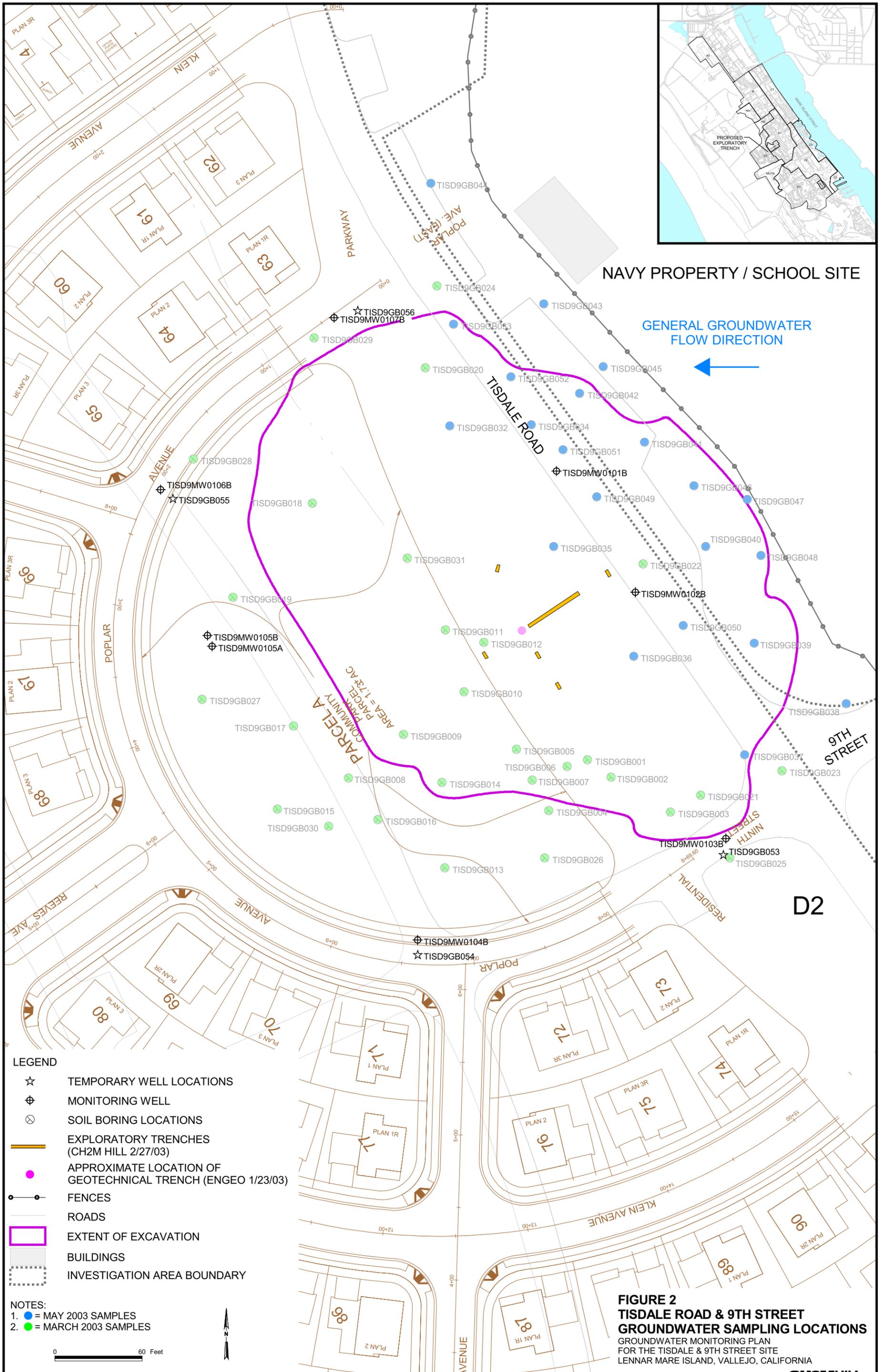
October 25, 2003

9th Street/Tisdale Location Summer 2003 Excavation



Restoration Advisory Board Tour, Mare Island Naval Shipyard

October 25, 2003



NAVY PROPERTY / SCHOOL SITE

GENERAL GROUNDWATER FLOW DIRECTION



D2

LEGEND

- ☆ TEMPORARY WELL LOCATIONS
- ⊕ MONITORING WELL
- ⊗ SOIL BORING LOCATIONS
- EXPLORATORY TRENCHES (CH2M HILL 2/27/03)
- APPROXIMATE LOCATION OF GEOTECHNICAL TRENCH (ENGE0 1/23/03)
- FENCES
- ROADS
- ▭ EXTENT OF EXCAVATION
- ▭ BUILDINGS
- ⋯ INVESTIGATION AREA BOUNDARY

NOTES:
 1. ● = MAY 2003 SAMPLES
 2. ● = MARCH 2003 SAMPLES



FIGURE 2
TISDALE ROAD & 9TH STREET
GROUNDWATER SAMPLING LOCATIONS
 GROUNDWATER MONITORING PLAN
 FOR THE TISDALE & 9TH STREET SITE
 LENNAR MARE ISLAND, VALLEJO, CALIFORNIA

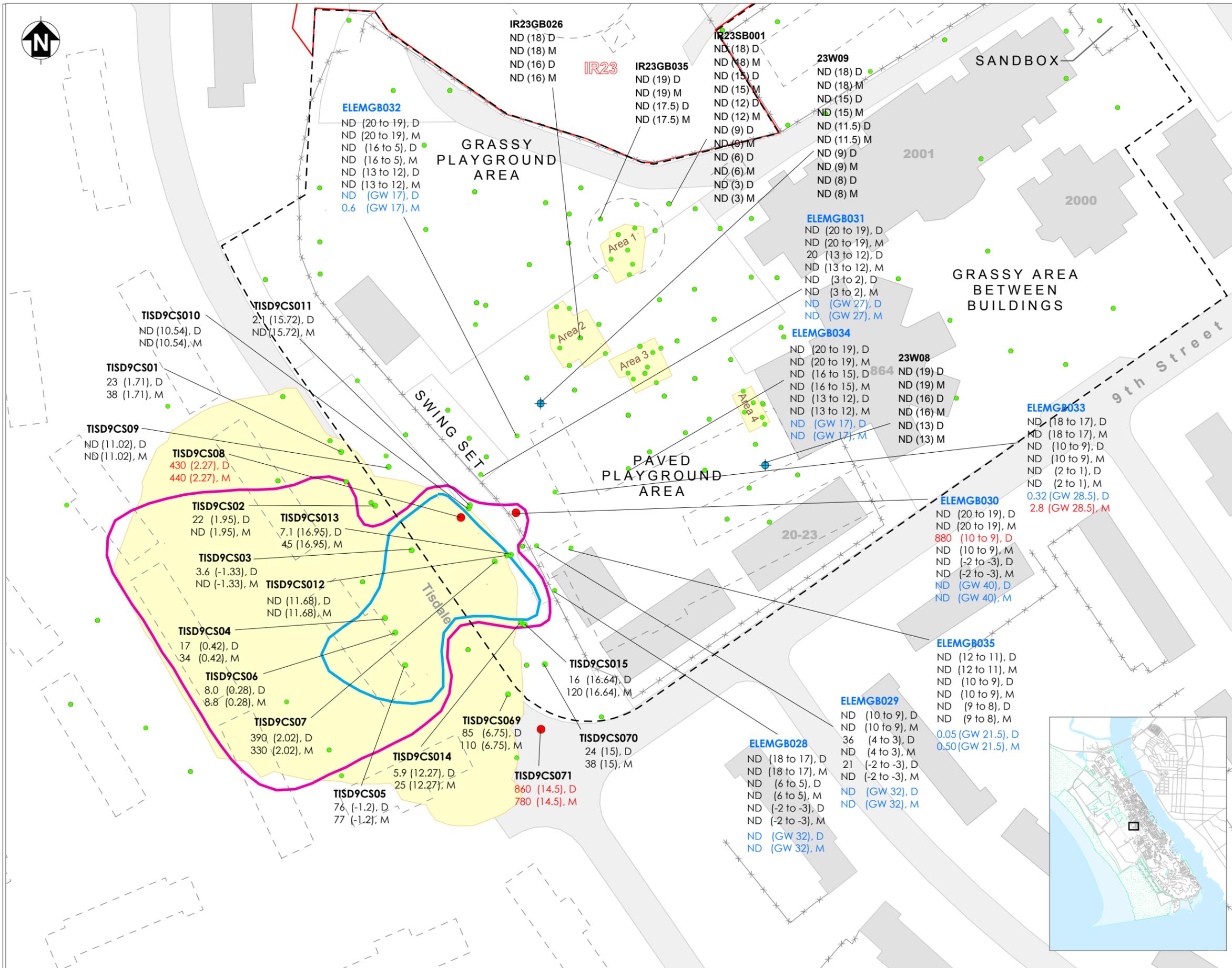
Elementary School



- Part of original island
- Rifle Range
 - Early 1900s
- Temporary Residential Housing
 - Mid-1940s
- Elementary School
 - Property transferred in 1951 to school

Elementary School Former Shoreline





Point Identification

● TISD9GB0XX
 36 (7.4) D
 Chemical Name
 Sample Top
 Depth (feet ms)
 Concentration of
 TPH (mg/kg)

TPH in Soil

● Above Comparison Criteria
 ● Below Comparison Criteria

⊕ Monitoring Well
 ✕ Fences
 ▭ School Property
 □ Excavation

Concentrations of TPH-D and TPH-M in mg/kg

— Greater Than 1,000 mg/kg
 — Greater Than 500 mg/kg

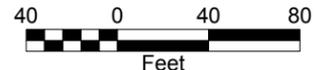
Base Map

■ Buildings/Structures
 ■ Roads
 □ Site Features
 □ Removed Structures

Notes:
 Groundwater results in maximum feet below ground surface are shown in blue text.
 Blue sample location IDs indicate unvalidated data.

D Hydrocarbon matched diesel profile
 GW Groundwater
 M Hydrocarbon matched motor oil profile
 MSL Mean sea level
 ND Not detected
 TPH Total petroleum hydrocarbons

Comparison Criteria:
 Soil: 400 mg/kg
 Water: 1.4 mg/L



Tetra Tech EM Inc.

Mare Island
 U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 1
PRELIMINARY DATA
TPH SAMPLES EXCEEDING
COMPARISON CRITERIA

Mare Island Elementary School Area