

Brief Report – EERI Clearinghouse – UCSD Team

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Three days following the event, on April 7, 2010, a team of five from the San Diego area visited the affected areas of El Centro, Calexico, and Mexicali. This initial survey immediately after the event was intended to largely focus on nonstructural damage. Team members included Tara Hutchinson, Arnold Gastelum, Derrick Watkins, and Richard Wood of the University of California, San Diego, and Matthew Hoehler of Hilti Corporation. In addition to driving through affected areas, four detailed site surveys were documented, namely (1) El Centro Regional Medical Center and Medical Plaza (N32.7804°, W115.5685°; 1415 Ross Avenue, El Centro, CA 92243), (2) Calexico Water Treatment Plant (N32.6703°, W115.5050°; 545 Pierce Avenue, Calexico, CA 92231), (3) Downtown Calexico (N32.6674°, W115.4946°), and (4) Universidad Autonoma de Baja California, Mexicali (UABC; N32.6320°, W115.4444°). Select images from each of these sites are provided below. Additional reporting will follow in the near future. Note that all images within this report were taken on April 7, 2010 unless otherwise noted.

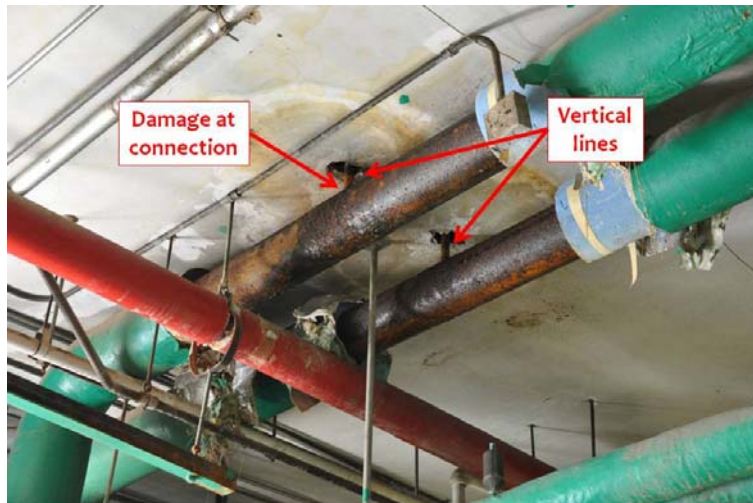
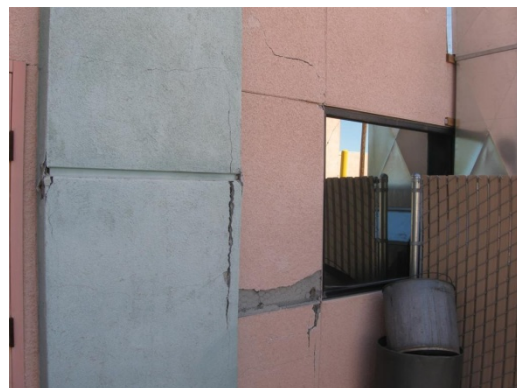


Figure 1. Repaired chill lines in one-story wing of the El Centro Regional Hospital, only minor nonstructural damage was observed in both the new and old wings of the hospital.



(a)



(b)

Figure 2. Red tagged medical plaza neighboring the El Centro Regional Hospital: (a) northwest corner and (b) typical facade cracking (west side). Extensive nonstructural damage was also observed in this structure.

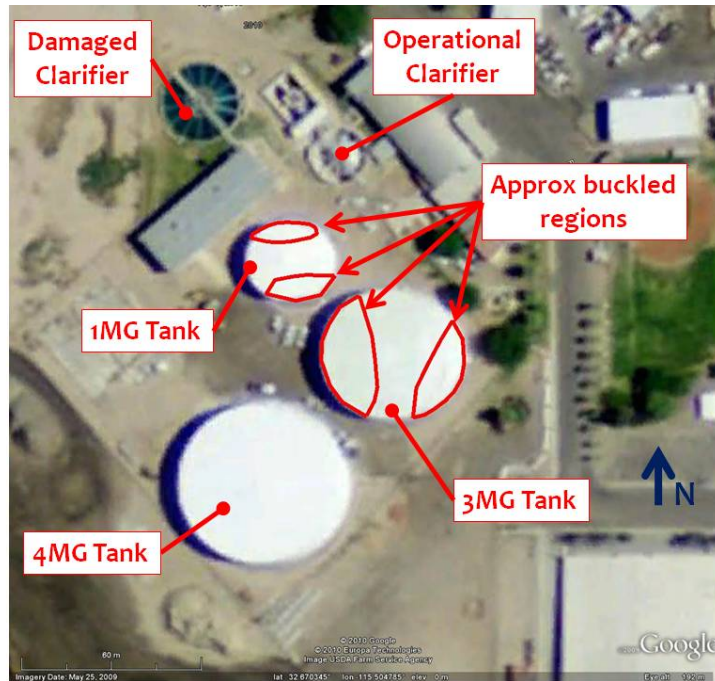


Figure 3. Annotated GoogleEarth image of the Calexico water treatment plant (N32.6703°, W115.5050°).

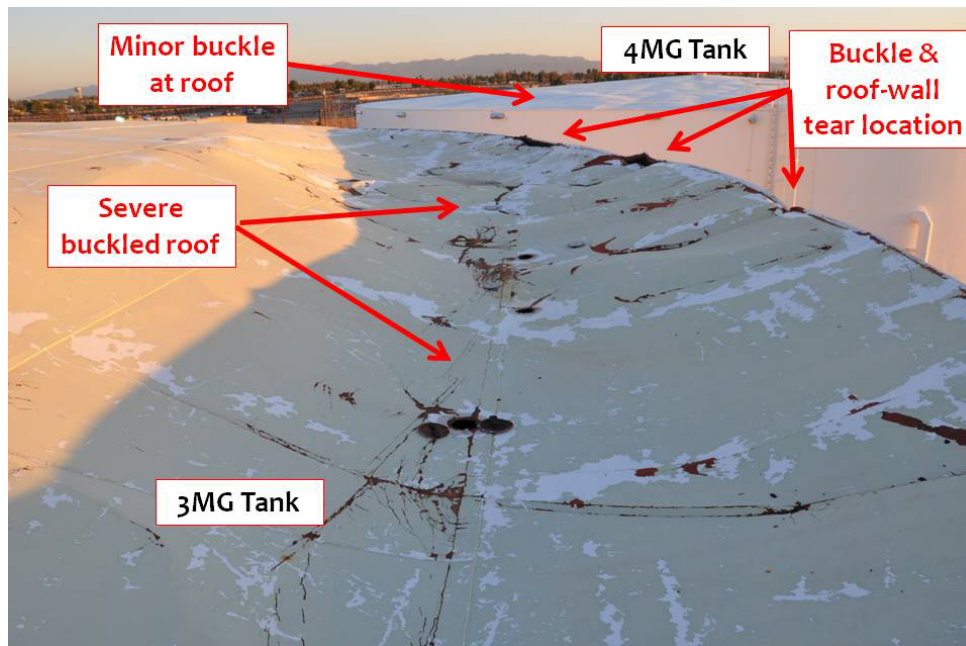


Figure 4. Damage to the 3MG tank west roof region (foreground), showing 4MG tank roof in background (image looking southwest) – Calexico Water Treatment Plant. (N32.6703°, W115.5048°)



Figure 5. Evidence of dynamic foundation movement (a. N32.6703°, W115.5049°; b. N32.6704°, W115.5048°). (note cracks in pavement and separation between pipe and pavement). Calexico Water Treatment Plant.



Figure 6. Damage due to impact of neighboring structure storefronts in downtown Calexico (images courtesy of professional photographer Joseph Llausas - taken April 5, 2010).



(a)



(c)



(b)

Figure 7. Damage observed at the Hotel de Anza within the city of Calexico, CA; (a) overview of front entrance, (b) significant cracks sustained just west of the tower section (1 = diagonal crack, 2 = vertical crack and 3 = horizontal cracks at floor levels) and (c) chimney damage on the east wall (N32.6689° W115.4956°).



Figure 8. Typical interior damage of the Hotel de Anza in Calexico (images courtesy of professional photographer Joseph Llausas - taken April 6, 2010).



Figure 9. Damage at the UABC (Universidad Autonoma de Baja California (N32.6320°, W115.4444°): (top) typical exterior damage of low-rise masonry construction, (middle) interior ceiling damage, and (bottom) damage to partially grouted CMU walls.