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12:50 pm, May 11, 2009

Alameda County  
Environmental Health



May 6, 2009

Mr. Paresh Khatri  
Alameda County Health Care Services Agency  
Environmental Health Services; Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Workplan Addendum: Fuel Leak Case No. RO0000346 and GeoTracker  
Global ID T0600100920, BP #111105 / Shell 17-1455, 3519 Castro Valley  
Boulevard, Castro Valley, CA 94546

Dear Mr. Khatri:

This workplan addendum was prepared to address ACEH's technical comments regarding SOMAs March 9, 2009 "Site Conceptual Model and Workplan to Address Data Gaps". ACEH recommended eliminating borings DP-4 and DP-5 due to their close proximity to monitoring well ESE-5 and the limited benefit that data from these borings may offer in increasing understanding of site conditions and addressing the current data gap. SOMA agrees with ACEH and has removed borings DP-4 and DP-5 from the workplan. The remaining borings have been renumbered and their locations are shown in the attached figure.

ACEH suggested that determining whether groundwater at the site is semi-confined to confined or unconfined is a current data gap and requested that SOMA address it in our proposed work. To address this data gap, SOMA proposes advancing a shallow groundwater monitoring well within the vadose zone, adjacent to ESE-1. The monitoring well (SOMA-5) will be advanced by using hollow-stem drilling techniques to 15 feet bgs (within the confining unit and above the water-bearing permeable zone) and screened from 5 to 15 feet, across the potentiometric surface. The well boring will be continuously cored and logged to characterize the hydrogeologic characteristics. The core will be screened using a PID and results documented on a geological log. Soil samples will be collected at intervals of elevated PID readings, staining or odor. SOMA-5 will be constructed of 2-inch-diameter Schedule 40 PVC casing with the screen interval constructed using 0.02-inch diameter pre-slotted PVC casing. Filter pack material will consist of No. 3 Monterey sand. Actual well depth and screen interval will be based on field observations. The well will be completed at existing grade with a traffic-rated vault.

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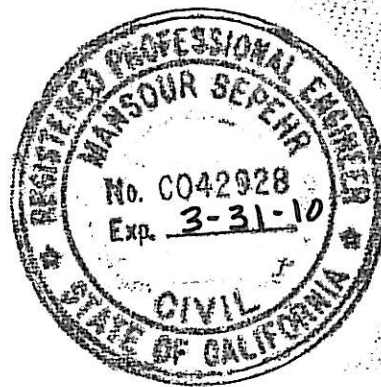
Please do not hesitate to call me at 925-734-6400 if you have any questions or comments.

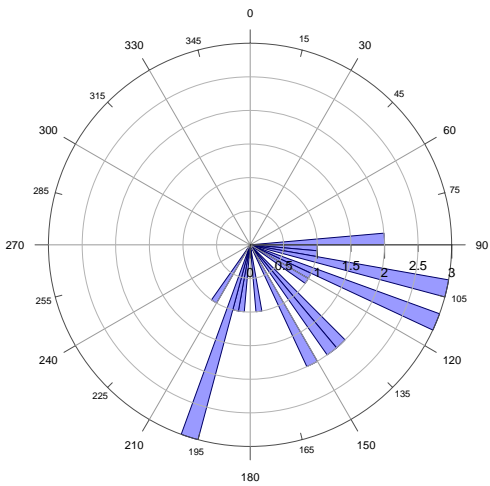
Sincerely,



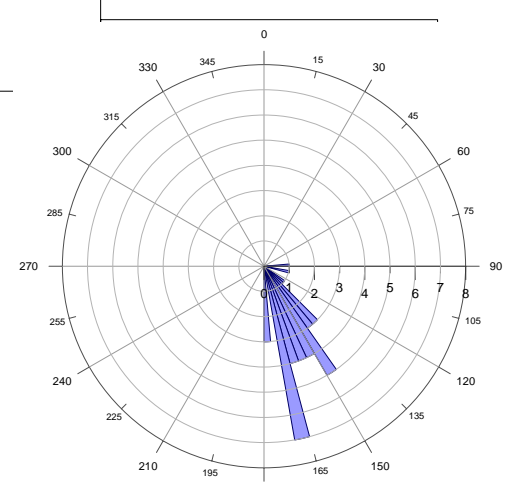
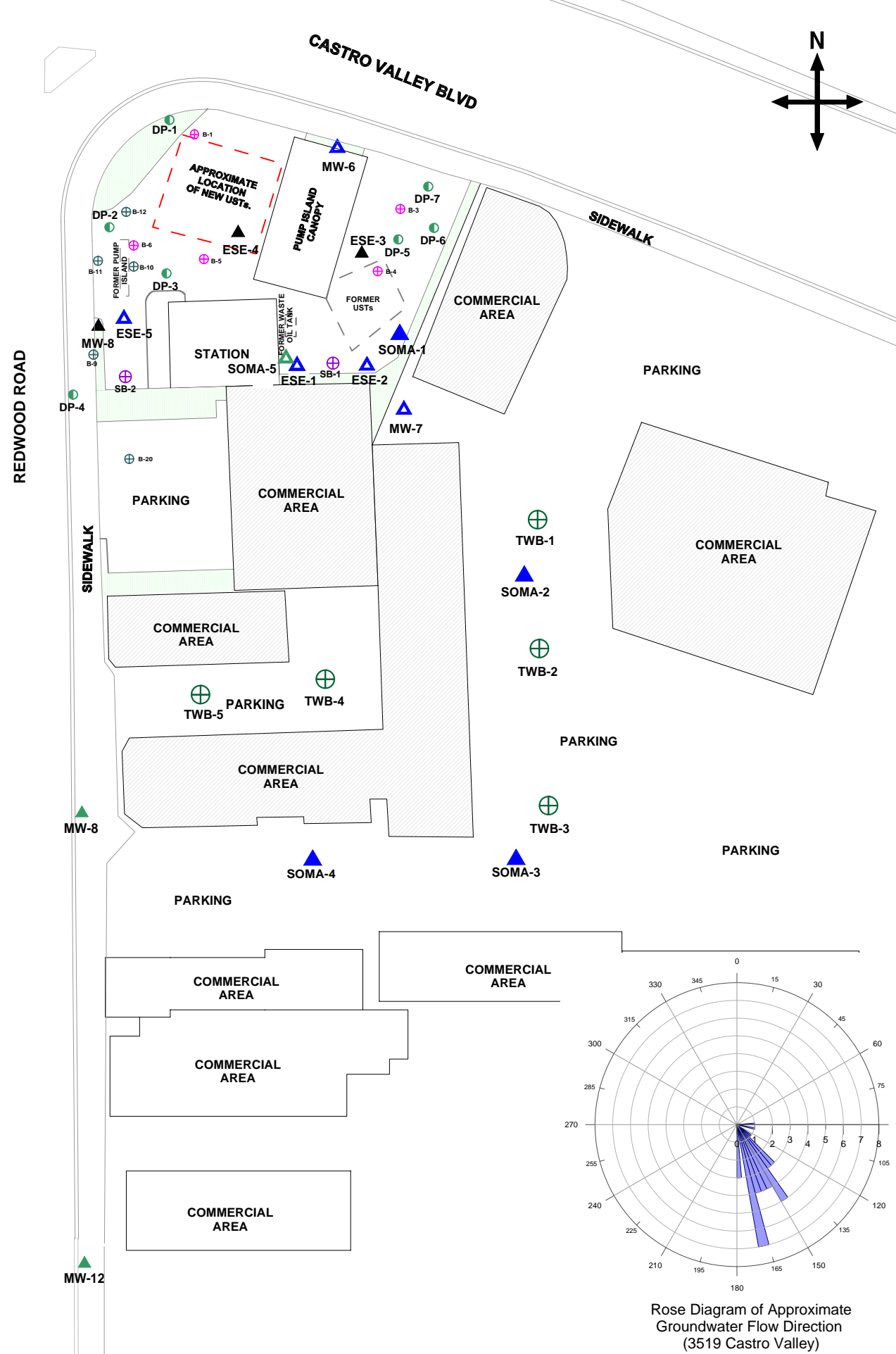
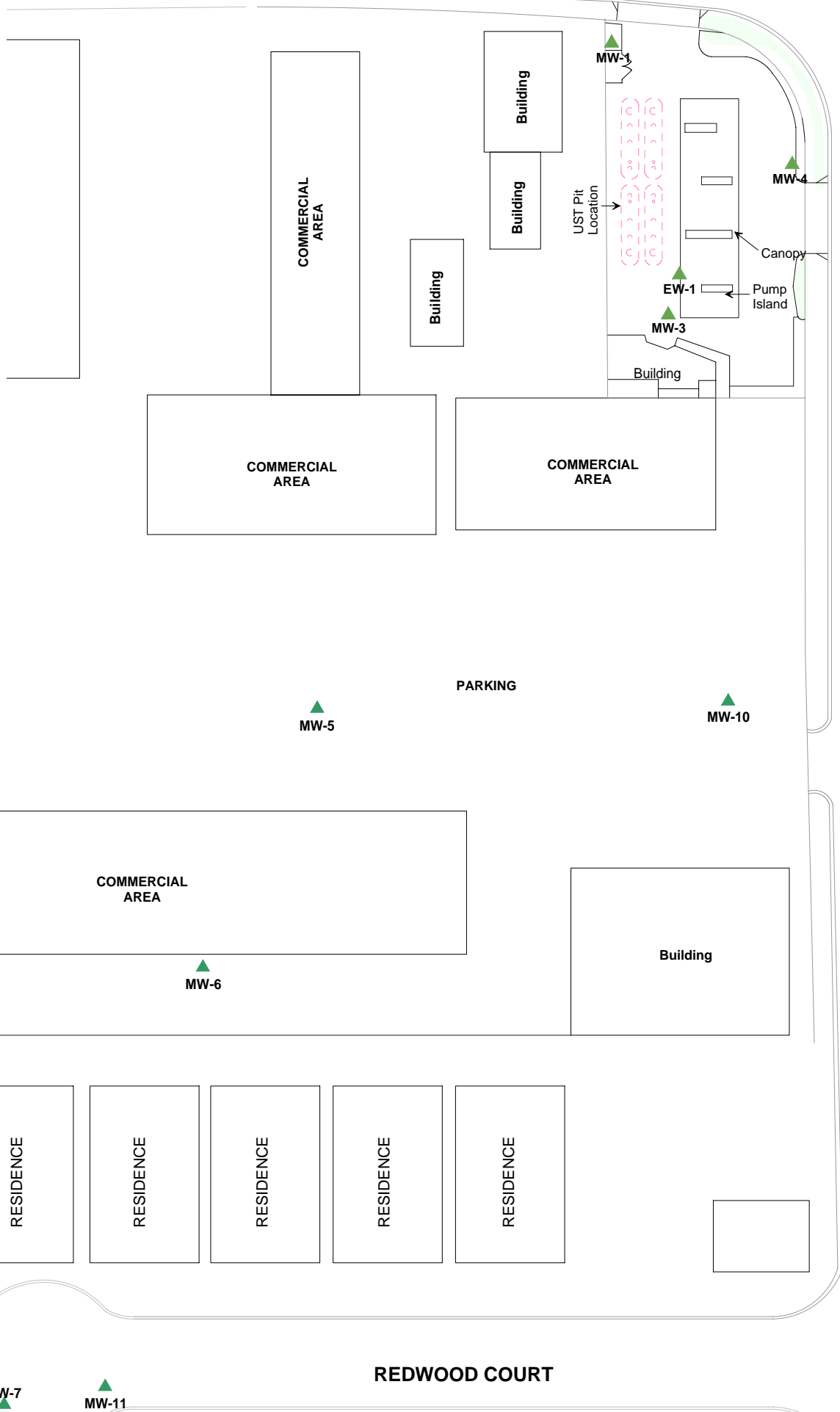
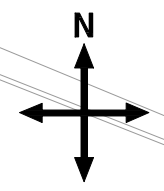
Mansour Sepehr, PhD, PE

Attached: Site Map Showing Locations of Proposed Monitoring Well and Soil and Groundwater Borings





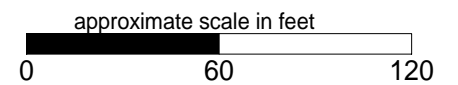
Rose Diagram of Approximate Groundwater Flow Direction (3495 Castro Valley)



Rose Diagram of Approximate Groundwater Flow Direction (3519 Castro Valley)

- PROPOSED MONITORING WELL
- PROPOSED SOIL BORINGS
- SOIL BORINGS- DELTA CONS. SEPT. 2008
- SOIL BORINGS REDWOOD ROAD EXPANSION FEB 1995
- MONITORING WELL
- DECOMMISSIONED WELL
- COMPLETED OFFSITE TEMPORARY WELL BOREHOLE DRILLED DEC. 2003
- SOIL BORINGS DRILLED PRIOR TO UST REMOVAL AUG. 2003
- MONITORING WELL (Located at 3495 Castro Valley Blvd.)

NOTES:  
 ESE-3 and ESE-4 were decommissioned during UST tank excavation activities.  
 MW-8 was decommissioned by the previous consultant.



Site Map Showing Locations of Proposed Monitoring Well and Soil and Groundwater Borings

