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RECEIVED

2:23 pm, Mar 28, 2008

Alameda County
Environmental Health

March 21, 2008

Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: WORK PLAN ADDENDUM CERTIFICATION
ACEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

Dear Mr. Wickham:

You will find enclosed one copy of the following document prepared by P&D Environmental, Inc.

- Subsurface Investigation Work Plan Addendum (SG1 Through SG5, B12, B15 Through B28, MW3 and MW4) dated March 21, 2008 (document 0298.W3A).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned work plan for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to call me at (800) 818-7669.

Cordially,
Snow Cleaners, Inc.

Harold Turner
President

Cc: Mr. LeRoy Griffin, Oakland Fire Department, Emergency Services, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612 (with enclosure)

0298.L32

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

March 21, 2008
Work Plan 0298.W3A

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: SUBSURFACE INVESTIGATION WORK PLAN ADDENDUM
(SG1 Through SG5, B12, B15 Through B28, MW3 and MW4)
Fuel Leak Site RO0000357
2678 Coolidge Ave.
Oakland, CA

Dear Mr. Wickham:

P&D Environmental, Inc. (P&D), is pleased to present this work plan addendum in response to your letter dated March 19, 2008 which provided comments regarding P&D's Subsurface Investigation Work Plan (SG1 Through SG5, B12, B15 Through B27, MW3 and MW4) dated September 28, 2007 (document 0298.W3). The March 19, 2008 letter addressed the following items.

- Proposed boring locations,
- Length of well screens and filter packs
- Soil vapor sampling procedures.

The September 28, 2007 work plan is amended with this work plan addendum to incorporate the following additional information.

Proposed Boring Locations

Figure 3 of the September 28, 2007 work plan is amended and attached with this work plan addendum to show one additional proposed borehole designated as B28 located between boreholes B2 and B7 to further evaluate the horizontal and vertical extent of Stoddard solvent and the extent of the perched water table in the site vicinity. The borehole will be drilled using procedures and sampling frequencies described in the September 28, 2007 work plan for proposed boreholes B15, B16, B17 and B18. The borehole will be drilled to a total depth of 45 feet below the ground surface, and soil samples will be retained for laboratory analysis at five foot intervals beginning at a depth of five feet below the ground surface. One groundwater grab sample will be collected from each of the perched and deeper first-encountered non-perched water bearing zone for each borehole if groundwater is encountered during drilling.

Length of Well Screens and Filter Packs

The September 28, 2007 work plan is amended to show that the maximum length of the filter pack for proposed wells MW3 and MW4 will be no greater than 10 feet, and that the screen length will be less than 9 feet. The total depth of the wells is to be determined in the field based on the depth at which the targeted coarse-grained interval is encountered.

Soil Vapor Sampling

The September 28, 2007 work plan section for soil gas sample collection is amended to include the following proposed methods for soil gas sample collection.

Soil gas samples will be collected in accordance with general procedures set forth in the DTSC January 13, 2003 Advisory - Active Soil Gas Investigations.

Soil gas samples will be collected using the Geoprobe Post-Run Tubing (PRT) system. One temporary soil gas probe consisting of a Geoprobe drill rod fitted with a PRT expendable point holder and PRT adapter at the end of the drill rod will be driven into the ground using direct push technology at each soil gas sample collection location. The drill rod will be pushed to a depth of 5.0 feet below the ground surface and then retracted 0.5 feet to expose the lowermost portion of the borehole walls. When the drill rod is retracted, the expendable drive point is disengaged from the drill rod, allowing a soil gas sample to be collected through the drill rod. Hydrated bentonite will be used to seal around the drill rod at the ground surface to prevent ambient air intrusion from occurring. A 1/4-inch outside diameter Teflon tube will be fitted with an o-ring and screw adapter and inserted into the bottom of the interior of the drill rod to allow collection of soil gas from the void space at the bottom of the borehole while preventing ambient air from entering the soil gas sample collection space. Following installation of the tubing with the screw adapter, sample collection will not occur for at least 20 minutes to allow the newly-installed probe to equilibrate.

The purge volume will be defined as the volume of the void at the bottom of the borehole plus the volume of the interior of the sample tubing between the sample collection container and the void at the bottom of the borehole. Following installation of the tubing with the screw adapter, the purge volume will be calculated. No purge testing will be done because no mobile laboratory will be at the site. A default of three purge volumes will be extracted prior to sample collection. All purge volume calculation information will be provided in the report documenting field activities.

A vacuum gage will be connected to the end of the tubing at the ground surface, and a stainless steel tee with valves will be connected to the side of the vacuum gage farthest from the sample collection location. On the side of the tee farthest from the sampling location a 500 milliliter (ml) rotameter flow meter will be connected to the tee, and a Summa canister will be attached to the rotameter. A flow regulator will be connected to the tee on the side of the tee that is not connected to the rotameter. The flow regulator will regulate flow to 150 to 200 ml per minute. A one-liter Summa canister will then be connected to the flow regulator.

Prior to connection of the one-liter Summa canister to the flow regulator, the vacuum of the one-liter Summa canister will be measured and recorded. Prior to sample collection paper towels soaked with isopropanol will be placed on surfaces immediately adjacent to each of the seals for the drill rod that are exposed at the ground surface (the bentonite seal and the opening to the drill rod) and adjacent to each of the fittings for the sample collection assembly to provide a tracer gas for system tightness evaluation. The person placing the paper towels soaked with isopropanol will be different from the person handling the sample collection containers.

After a minimum of 20 minutes has elapsed following drill rod and tubing installation, and after isopropanol-soaked paper towel placement, the valve in the tee located between the sampling location and the rotameter will be opened, followed by the opening of the valve to the Summa canister located downstream of the rotameter. The flow rate will be maintained between 100 and 200 ml/minute. Once a total of three purge volumes has been purged the valve to the Summa canister located downstream of the rotameter will be closed and the valve between the tee and the rotameter will be closed. The valve to the flow regulator followed by the valve to the one-liter Summa canister will then be opened and the one-liter Summa canister allowed to fill until the vacuum is reduced to six inches of Mercury. The one-liter Summa canister valve will then be closed followed by closing the valve between the tee and the flow regulator, and the one-liter Summa canister will then be labeled and stored in a dry cooler without ice pending shipment to the laboratory. In the event that low-flow or no-flow conditions (fine-grained soil with vacuum readings that exceed approximately 10 inches of mercury) are encountered, a soil sample will be collected from the borehole at a depth of 5.0 feet for laboratory analysis using a Geoprobe Macrocore barrel sampler lined with cellulose acetate liners.

One duplicate soil gas sample will be collected into a one-liter Summa canister using procedures described above immediately after the original sample. The void space and tubing will not be purged of three purge volumes prior to collection of the duplicate sample. In addition, one trip blank will be used for the project. Following soil gas sample collection, the soil gas samples will be promptly shipped to the laboratory for extraction within 72 hours of sample collection. The requested laboratory analysis will include the tracer gas isopropanol. Soil gas sampling will not be performed during or following a precipitation event.

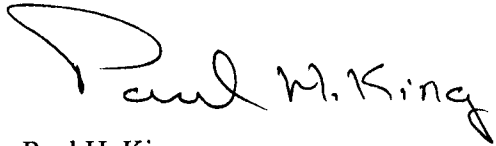
All drilling rods and associated drilling fittings will be cleaned with an Alconox solution wash and clean water rinse followed by a clean water rinse using steam distilled water. New polyethylene tubing will be used at each sample collection location. Clean, unused vacuum gages and stainless steel tee and valve assemblies will be used at each sample collection location.

March 21, 2008
Work Plan 0298.W3A

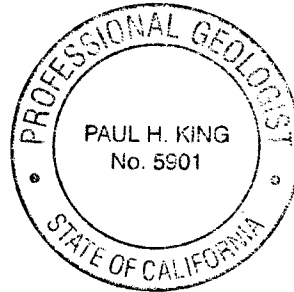
Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/09

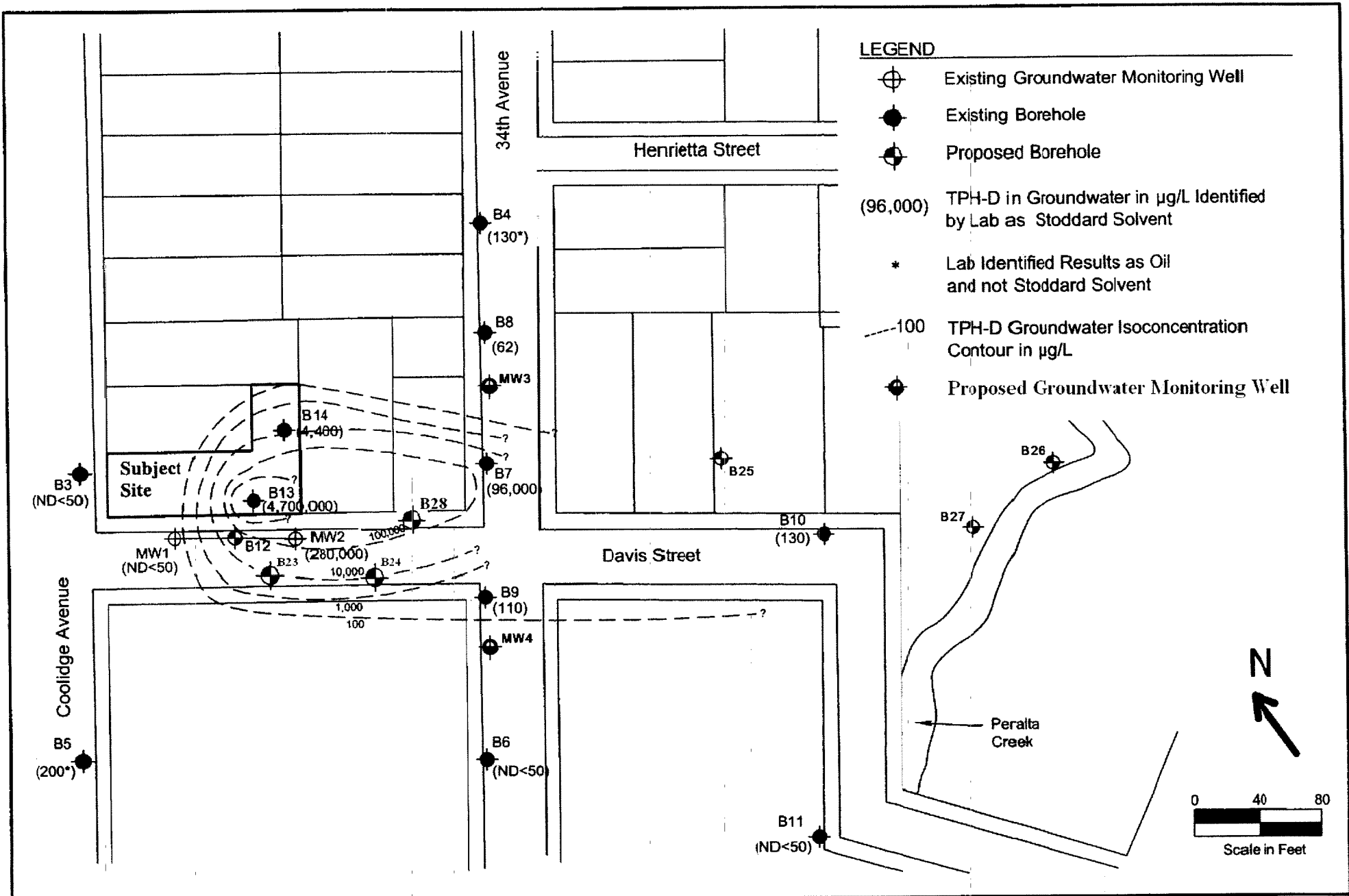


Attachments: Figure 3 - Site Vicinity Map Showing TPH-D in Groundwater and Proposed Borehole Locations

cc: Mr. Harold Turner – Snow Cleaners

PHK
0298.W3A

FIGURES



Base Map From:
Parcel Quest
Assessor's Parcel Maps
Alameda County Map Disc
July 2001

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

Figure 3
Site Vicinity Map Showing TPH-D in Groundwater and Proposed Borehole Locations
Snow Cleaners
2678 Coolidge Ave
Oakland, CA