

October 12, 2010

Paul Cho, P.G.

Water Resources Control Engineer

California Regional Water Quality Control Board, Site Cleanup Unit IV

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Addendum to the *LNAPL Characterization Via Ultra-Violet Optical Screening Tool Technology and Vapor Monitoring Program Work Plan, Defense Fuel Support Point Norwalk, California (SCP No. 0286A, Site No. 16638); September 14, 2010*

Dear Mr. Cho:

Parsons, on behalf of the Defense Energy Support Center (DESC), is pleased to submit this addendum to the work plan for *LNAPL Characterization via Ultra-Violet Optical Screening Tool Technology and Vapor Monitoring Program, Defense Fuel Support Point Norwalk, California*¹ submitted on September 14, 2010 for the DESC Norwalk Site. This addendum provides for collection of soil and petroleum product samples for the purpose of calibrating the ultra-violet optical screening tool (UVOST) and interpretation of UVOST response.

The work plan submitted in September 2010 proposed the installation of 15 boreholes using UVOST technology to access the lateral and vertical extent of petroleum hydrocarbons at specific onsite areas. Uncertainties exist in these areas regarding the presence or extent of residual petroleum hydrocarbons or light non-aqueous phase liquids (LNAPL). The following discussion details the proposed additions to the September 2010 work plan and provides the scope of work.

¹ Parsons, *LNAPL Characterization Via Ultra-Violet Optical Screening Tool Technology and Vapor Monitoring Program*, Defense Fuel Support Point Norwalk, 15306 Norwalk Boulevard, Norwalk, California; September 14, 2010.

Addendum Work Plan

Parsons will collect soil core samples in the smear zone, as identified from the UVOST logging, at three locations; UV-2, UV-10, and UV-12 (see Figure 2 in Work Plan). All three cores will be scanned with a PID, and the one core with the highest PID reading will be split for laboratory analysis. One half of the split core will be sent to a geotechnical laboratory [Core Labs] and analyzed for pore fluid saturation using American Petroleum Institute Method RP40 and grain size distribution using ASTM International Methods D422 /D4464. The other half of the split core sample will be sent to a chemical laboratory [Calscience Environmental Laboratories, Inc.] for analysis of TPH as gasoline, TPH as jet fuel, and TPH fraction by EPA Method 8015M and VOCs using EPA Method 5035. These data will be used to calibrate the UVOST tool and aid interpretation of the UVOST results.

The soil coring at these three locations will occur subsequent to the UVOST drilling by drilling adjacent boreholes and utilizing a piston-type sampling to collect the samples from the smear zone. The depth of the smear zone and the sampling interval will be based on interpretation of the UVOST logs.

Additionally, fourth quarter 2010 water level measurements subsequent to the original September 14, 2010 Work Plan for LNAPL Characterization via UVOST has identified free product at monitoring well GMW-62, located in Holifield Park. Therefore, the extent of free product is now interpreted to extend further east than previously suspected. Therefore, we propose to move the location of proposed boring UV-12 a little further east than the original proposed location, to the east of GW-15 near the property boundary. There are many underground pipes along the property border that make drilling difficult in this area. This entire area will be cleared for underground structures and all findings will be clearly marked. Parsons will do their best to locate the UVOST as close to the park as possible.

Mr. Cho
Addendum Work Plan

October 12, 2010

If you have any questions please call me at (602) 734-1083.

Sincerely,



Redwan Hassan, P.G.
Program Manager

Attachment: Well Location Map

cc: File
Mr. Kola Olowu, DESC-FQ
Lt. Col. Jon Ramer, DESC
Mr. Tim Whyte, URS
Ms. Adriana Figueroa, City of Norwalk
Mr. Thomas Lynch, City of Norwalk
Mr. Norman Dupont, City of Norwalk Attorney
Mr. Charles Emig, City of Cerritos
Ms. Nancy Matsumoto, Water Replenishment District of So. CA
Mr. Steve Defibaugh, KMEP
Mr. Mark Wuttig, CH2M Hill
Mr. Dan Jablonski, CH2M Hill
Ms. Mary Lucas, Parsons
Office of Congresswoman Grace Napolitano

RAB Members

Ms. Mary Jane McIntosh
Dr. Eugene Garcia
Mr. Bob Hoskins
Ms. Tracy Winkler

Legend

- Direct Push Location
- ▲ Extraction Well Used for Site Remediation
- Groundwater Monitoring Well
- ◆ UV-1: Proposed Ultra-Violet Optical Screening Tool (UVOST) /Cone Penetration Testing (CPT) Location

NORWALK BLVD

EXCELSIOR DRIVE

Holifield Park

CHESHIRE STREET

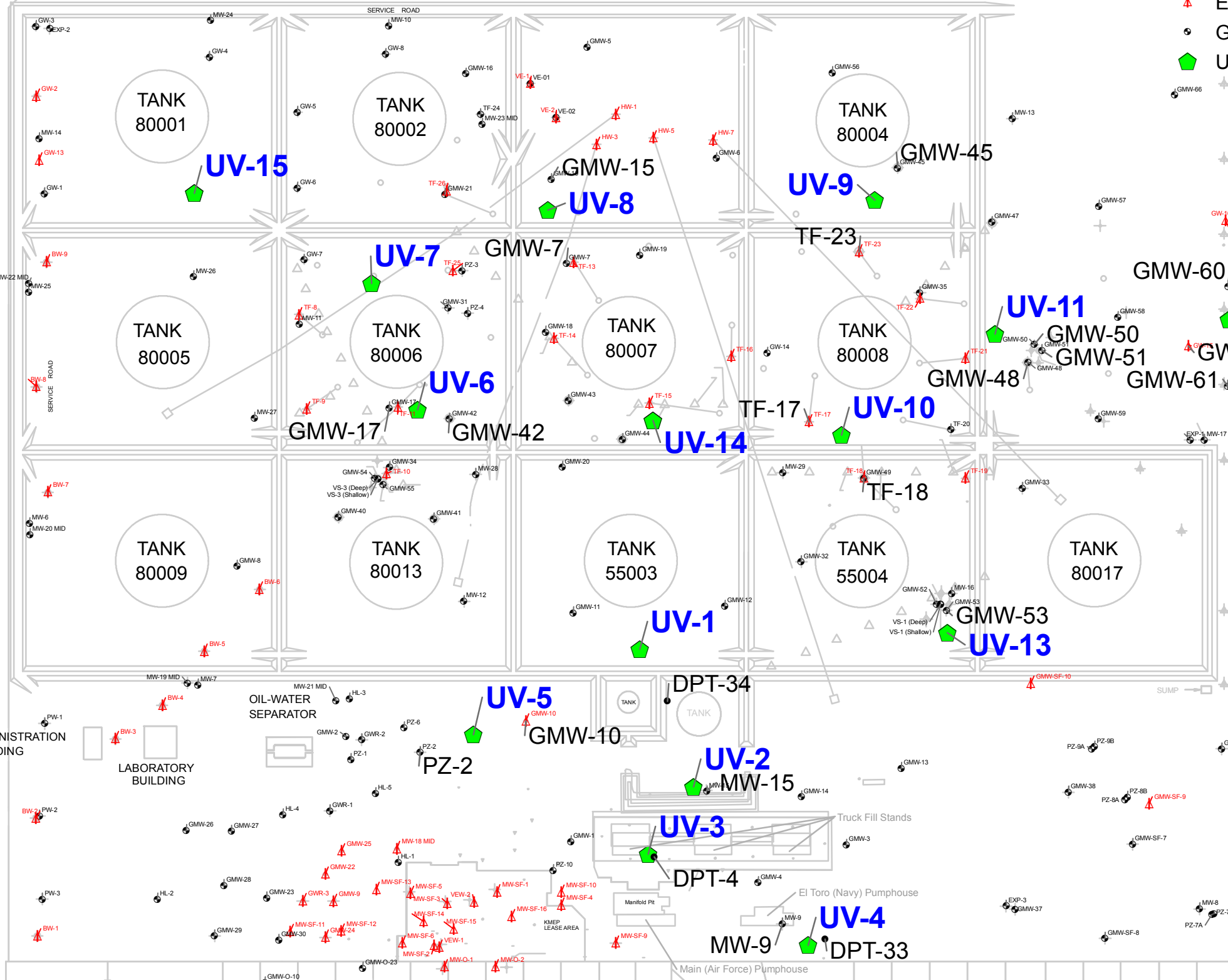


FIGURE 2
Proposed UVOST®/CPT Locations

DEFENSE FUEL SUPPORT POINT
 Norwalk, California

PARSONS
 Pasadena, California

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