



HARTCROWSER

Earth and Environmental Technologies

*PACCAR/SIT 5.4.6.2
(transmitted letter
and companion report in
SIT 5.4.6.1)*

Hart Crowser, Inc.
1910 Fairview Avenue East
Seattle, Washington 98102
FAX 206.328.5581
206.324.9530

J-1639-27

January 5, 1993

Mr. Robert K. Butler
PACCAR Inc.
P.O. Box 1518
Bellevue, Washington 98009

Re: Work Plan for Additional Subsurface Investigation and
Excavation At Hot Spot U-1
Phase IV Remediation Work
PACCAR Renton Site

Dear Bob:

This letter presents our proposed work plan for Additional Subsurface Investigation and Excavation at Hot Spot U-1. This work is a continuation of the Phase IV remediation work currently underway. Please provide your comments and approval at your earliest convenience.

As described in our letter report dated January 5, 1993, the recent subsurface investigation at Phase IV hot spot grid location U-1 encountered petroleum hydrocarbon contamination in the soil and groundwater, and floating product on the groundwater surface. This contamination appears to be limited to the western wall of the excavation and the recently installed well U1N. Because the presence of buried utilities, the public sidewalk, and Garden Avenue will complicate further excavation of the western wall, PACCAR wishes to further investigate the vertical and lateral extent of petroleum hydrocarbon contamination north and west of the present limits of the excavation, prior to conducting additional excavation.



We propose completing three borings to investigate soil quality and completing a fourth boring as a multi-purpose well. Although the exact locations will depend on the results of the utility location check, Figure 1 of this work plan shows the approximate boring and well locations. We will sample soil and groundwater to provide data regarding the vertical and lateral extent of petroleum hydrocarbon contamination. The well will be designed for use as a groundwater monitoring well and as a future groundwater remediation well if cleanup of the groundwater is required.

SCOPE OF WORK

The following tasks comprise the scope of this work.

Safety First

Before field work begins, workers will have viewed the site-specific health and safety video, read the Wilder Construction Company Health and Safety Plan, and signed in at the Wilder trailer. We anticipate wearing Level D personal protective equipment while inside an exclusion zone.

All nearby storm drain gutters will be temporarily sealed with plastic. We will place plastic sheeting around the surfaces where borings are to be installed. We will barricade each end of the public sidewalk and provide proper traffic control on Garden Avenue North. We will set up exclusion zones using cones and caution tape.

Task 1—Boring Location and Traffic Easement

- ▶ We will conduct a field utility check and mark the proposed boring and well locations in coordination with the City of Renton and the utilities companies.
- ▶ We will obtain a temporary traffic easement for installation of the borings and well in the City of Renton right of way. Garden Avenue North has three lanes. Work will occur in only one lane at a time.



Task 2—Soil Boring and Well Installation

- ▶ Hart Crowser will advance four borings to a depth of about 16 feet and complete one of the borings as a 4-inch-diameter PVC well with a flush-mounted monument. After drilling is completed, all soil cuttings and groundwater will be immediately removed from the area and placed in covered stockpiles or drums on the PACCAR site.

Task 3—Soil and Groundwater Sampling and Analysis

- ▶ During the installation of each boring, we will collect continuous soil samples from a depth of 6 to 16 feet. These soil samples, up to 6 from each boring, will be analyzed for petroleum hydrocarbons by Method 8015-modified.
- ▶ We will develop and sample the well after installation. One groundwater sample will be analyzed for petroleum hydrocarbons by Method 8015-modified.

Task 4—Report of Findings and Recommendations

- ▶ We will provide a report of findings including our interpretation of the soil and groundwater quality data, and our recommendations regarding remedial actions and monitoring of soil and groundwater at this location.

Task 5—Additional Excavation at U-1

- ▶ Additional, limited excavation at U-1 will be conducted by PACCAR's Phase IV contractor, Wilder Construction Company. Hart Crowser will provide field and laboratory services to support this work. This work will be similar to other Phase IV work, including field observation, soil sampling, and analysis. The excavation will, at this point, be limited to removal and replacement of portions of the sidewalk along Garden Avenue North and will not include excavation within Garden Avenue North. The limits of excavation and the excavation procedures will be described in a letter to be provided after the proposed additional exploration program is complete.



PACCAR Inc.
January 5, 1993

J-1639-27
Page 4

Any questions regarding this work plan should be referred to the undersigned.

Sincerely,

HART CROWSER, INC.

JOHN T. FINN, P.E.
Associate

UIWKPLN.LR

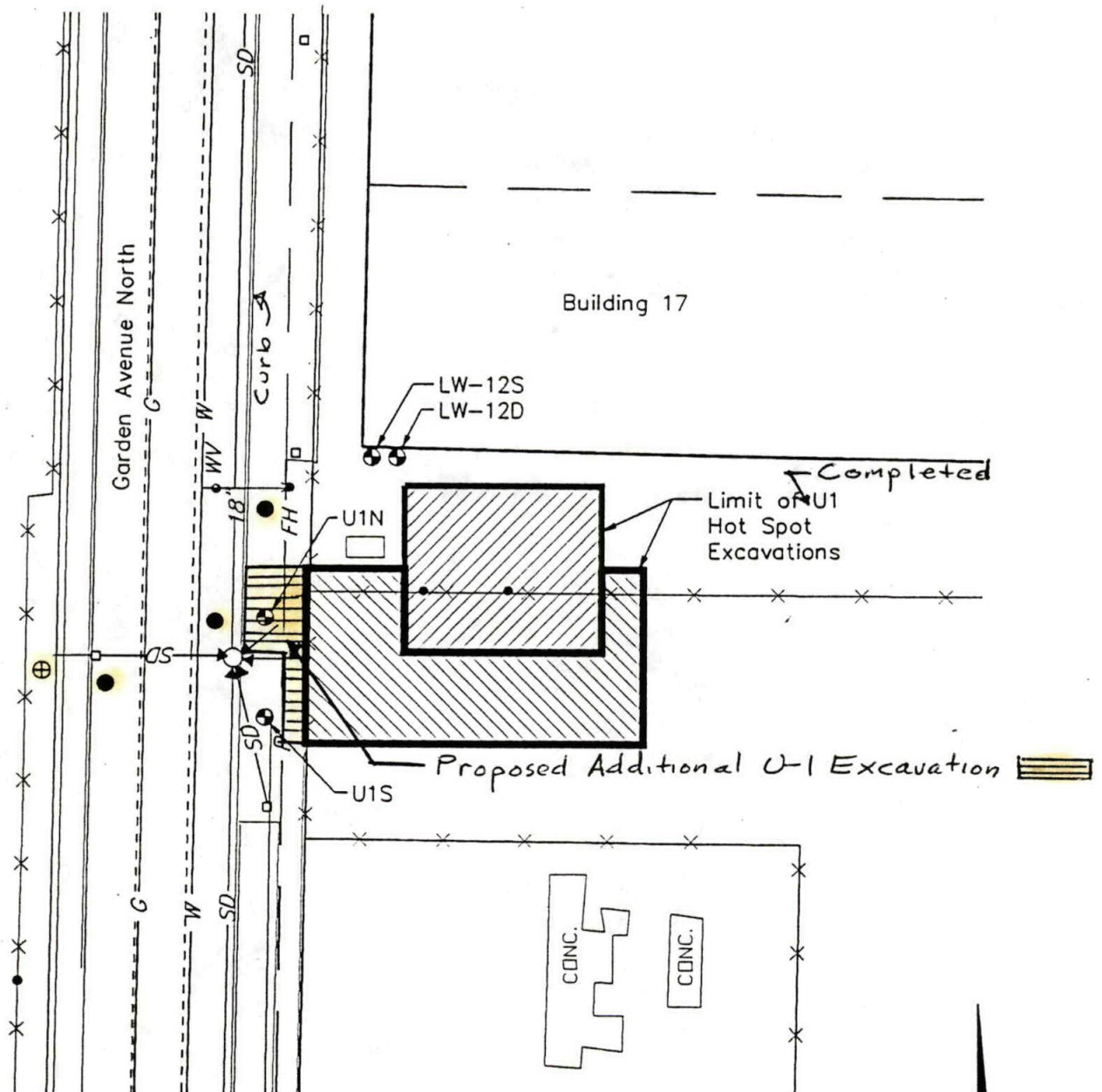
Attachment:

Figure 1 - Site and Well Location Plan
Showing Proposed Boring and Monitoring Well Locations

cc: (w/Attachment)
Matt Dalton; Dalton, Olmsted & Fuglevand
Claus Hackenberger; PACCAR Renton

Site and Well Location Plan

Showing Proposed Boring and Monitoring Well Locations



- U1N Existing Monitoring Well Location and Number
- Proposed Exploratory Boring Location
- ⊕ Proposed Monitoring Well Location

0 40 80
Scale in Feet



HARTCROWSER

J-1639-27 1/93

Figure 1