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Earth Systems Consultants

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Earth Systems Consultants Northern California 47853 Warm Springs Blvd. Fremont, CA 94539-7400 (510) 353-0320 Fax (510) 353-0344

	To:	ACHCSA	
	ATTENTION:	Lary Seto	ij
•	Subject:	Mariner Square Workplan	
	FROM:	Gan Pischlie	
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File No. NFE-4392-01 November 11, 1998

Alarneda County
Health Care Services Agency
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

Attention:

Mr. Larry Seto

Senior Hazardous Materials Specialist

Subject:

MW-5 FORMER BULK FUEL PIPELINE EXCAVATION

AND PNA SAMPLING WORKPLAN

2415 Mariner Square Drive

Alameda, California

Dear Mr. Seto:

Earth Systems Consultants Northern California (ESCNC) is providing this workplan for excavation of the former bulk fuel pipeline in the MW-5 area at the above site (Figure 1) for your review. This activity will be completed to satisfy the requirements for excavation of the former pipeline as stated in the Alameda County Health Care Services Agency (ACHCSA) letter dated November 10, 1997. As required for the risk assessment, a GeoprobeTM point will be drilled to sample lead and polynuclear aromatics compounds (PNAs) in two areas adjacent to MW-1 and SB-1, as required in the ACHCSA July 30, 1998, letter.

ESCNC proposes to conduct the work to fulfill the San Francisco Regional Water Quality Control Board (Regional Board) and the ACHCSA requirements for closure. The tasks for the excavation activity are as follows:

Task 1: Workplan and Site Safety Plan

A site-specific Health and Safety Plan will be prepared using existing site safety plans as a template and will be based upon the scope of work in this workplan.

Task 2: Field Work Coordination

The estimated extent of the excavation is shown in Figure 1. The proposed excavation locations will be marked for an Underground Service Alert notification. The excavation contractor will be contacted for anticipated schedule of work and health and safety considerations.

Task 3: Excavation Oversight

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A field engineer/geologist will coordinate with the excavation contractor for utility location, soil sampling, and the amount and kind of piping and associated materials removed. The excavation area and soil will be screened for volatile compounds using an organic vapor meter (OVM). The OVM will be used as an initial screen to evaluate the extent of hydrocarbons in the soil remaining in

File No. NFE-4392-01 November 11, 1998

the excavation, and the potential for impacts on health and safety. The extent of the excavation will be defined by the soil sample results and field screening.

Following pipeline removal and any overexcavation, the excavation will be filled and compacted with clean soil from on-site, if suitable, and/or imported fill material. On-site fill material will require analytical data for reuse in the excavation as backfill soil.

Task 4: Soil and Water Sampling

Side wall soil samples will be collected for laboratory analysis from the excavator bucket using brass tubes that are harmmered into the soil. One soil sample will be collected for every twenty feet of pipeline and from side wall locations where significant hydrocarbon concentrations had been observed during excavation. These samples will be sealed with Teflon tape, capped and analyzed by a State of California certified laboratory under chain of custody. One ground water sample will be collected from the excavation, if ground water is encountered. The ground water elevation is expected to be approximately three to six feet bgs.



If generated, contaminated soil will be characterized according to the disposal company's requirements, expected to be one composite sample for every 100 cubic yards. Once the analytical results are received, soil will be transported off-site for disposal by a licensed waste hauler.

Task 5: GeoprobeTM Sampling

A GeoprobeTM points will be drilled in the areas of MW-1 and SB-J. The probes will collect soils samples above the groundwater for analysis. These samples will be sealed with Teflon tape, capped and analyzed by a State of California certified laboratory under chain of custody.

Task 6: Laboratory Analyses

Soil and water samples collected from the excavation will be analyzed by a California state-certified laboratory for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) and motor oil (TPHmo) by EPA method 8015 (modified), benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA method 8020 PNAs by EPA Method 8270 and total lead by EPA Method 7421. The sample suite is derived from the previous investigations and requirements as stated in previous ACHCSA letters.

The Geoprobe™ samples will be analyzed by a California state-certified laboratory for PNAs by EPA method 8270, Total lead by EPA method 6010/7000, and Soluble Lead (STLC) by the California Wet Test.

Task 7: Summary Report

ESCNC will present the results of this field work in a comprehensive report. The report will describe the techniques used for assessment, details of the excavation, location of sampling points, analytical results and interpretation of the results in terms of potential risk. The PNAs and Lead results will be incorporated into the Risk Assessment for the site.

File No. NFE-4392-01 November 11, 1998



Please call us at (510) 353-0320, if you have any questions. Upon ACHCSA's approval of this workplan, the excavation will be scheduled to proceed within five days.

Very truly yours,

EARTH SYSTEMS CONSULTANTS Northern California

Gary M. Pischke, CEG Senior Geologist

Bill E. Zehrbach, P.E. Executive Vice President

BUE Johnson

GMP/BEZ:dh Lu#26

Distribution: 1 to Addressee

1 to Mariner Square & Associates

Attachments: Figure 1-Proposed Soil Boring Locations

