Harding Lawson Associates

05160-HAR002-01

May 18, 1999

46038

Ms. Joann Orneclas
Integrated Environmental Services, Inc.
3990 Westerly Place, Suite 210
Newport Beach, California 92660

Change Order Request No. 1
Offsite Groundwater Characterization Services
LMC/ILM Facility
Boeing Realty Corporation/Lockheed Martin Corporation Joint Investigation
Los Angeles, California

Dear Ms. Orneclas:

Harding Lawson Associates (HLA) is submitting this change order request per our meeting on May 4, 1999, for additional expenses incurred during groundwater characterization services for the installation and sampling of eight monitoring wells at the subject facility. The primary objective of the project is to characterize the lateral extent of a contaminated groundwater plume from the adjacent Lockheed Martin Corporation facility (former International Light Metals facility). HLA's scope of services for the project was presented in our proposal to Integrated Environmental Services, Inc. (IES) dated December 21, 1998. During the course of the project, additional field staffing requirements and unanticipated delays as a result of lengthy sampling protocol and work stoppages for field decisions led to a significant increase in HLA's field effort.

EXPLANATION OF ADDITIONAL COSTS

The bulleted items listed below are provided as justification for the cost increase of $10,914.

- IES requested HLA to provide adequate coverage to interact with the Department of Toxic Substance Control (DTSC) during the field program for this high-profile project. HLA provided an additional geologist at the site for 3 days during the first week of fieldwork. HLA's original estimate included costs for only one geologist at the site. The original budget was $9,807 for a one-man field crew for the duration of the project, estimated to be 9 field days. Due to the addition of a second field person we seek to recover an additional $3,270, representing one third of the original field budget.

- HLA's original budget was based on an estimated nine days to complete the fieldwork. We expected that one mobilization would be required for the entire field effort. Twelve days and three mobilizations were actually required as a result of the re-siting of wells; group decisions regarding the analysis of soil samples; unusually lengthy protocols for equipment decontamination; and delay of groundwater sampling for the event to occur concurrently with the sampling program at an adjacent site. Additional delays occurred, as it was necessary to drill at a slow rate through several feet of fill material to identify the interface with the native soil. These conditions resulted in an