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From: Atteloney, Leonard [DEPNET1/DEPGPO2/LeonardA]
Sent: Thursday, March 14, 2002 1:18 PM
To: Smyth, Virginia
Cc: Radhakrishnan, Krish; Gilsenan, Michael
Subject: Revised WTC AIR MONITORING SCOPE OF WORK



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**THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL COMPLIANCE
ASBESTOS CONTROL PROGRAM**

AIR MONITORING AND ANALYSIS SERVICE CONTRACT

SCOPE OF WORK

A. Introduction

All work performed under this contract must be in compliance with all applicable, relevant, and appropriate regulations, including but not limited to those of the United States Environmental Protection Agency (USEPA), the United States Department of Labor Occupational Safety and Health Administration (USOSHA), the New York State Department of Labor (NYSDOL), the New York State Department of Health Environmental Laboratory Approval Program (ELAP) and the New York City Department of Environmental Protection (NYCDEP). The services required must be provided during regular business hours and weekends. The number of samples and other tasks are estimates for bidding purposes, with no minimum guarantee. This contract will be awarded to the lowest responsive and responsible bidder. The items listed on the bid sheet reflects the types of services required. A pre-bid conference shall be scheduled at the DEP office , at 59-17 Junction Boulevard, 8th floor.

B. Contract Term

This contract shall be in force for 120 consecutive calendar days from the NYC DEP commencement date.

C. Qualification

The laboratory must be in compliance with the National Environmental Laboratory Accreditation Conference (NELAC) standards and have certification by ELAP in the category of Airborne Asbestos by Transmission Electron Microscopy (TEM). Certification must be maintained for at least 6 consecutive proficiency testing rounds.

Air monitoring technicians must possess valid NYS Asbestos Project Sampling Technician (APST) certificates. Technicians must have performed air monitoring for at least 2 years and conducted final clearance inspections on at least 50 asbestos abatement projects. A minimum of 5 APST must be available to conduct air monitoring.

Proof of qualifications must be presented to NYC DEP upon request.

Sampling equipment must be in sufficient quantity to provide the turnaround time on each project. At a minimum the following equipment are required: air-sampling pumps (electric and battery operated) with flow rate capacities of 2 to 10 liters per minute, rotometers, mixed cellulose ester sample filters having pore size of 0.45um and electrical generators .

D. Tasks

The NYC DEP shall direct services. Air monitoring and analysis firm must be prepared to mobilize within 72 hours of the contract award. The NYC DEP estimates the monitoring at approximately 50 buildings. Multiple work areas shall be cleaned and monitored simultaneously. A minimum of 3 samples for small asbestos projects and a minimum of 5 samples for large projects shall be collected and analyzed. At a minimum, 1-area sample on small projects and 2- area samples on large projects shall be taken inside the work area during clean-up activities. One area sample shall be taken at the interior of the building within 10 feet of each access to the roof. Sampling must be conducted during the entire work shift. The sample volumes required would range from **1200 to 1800 liters** at flow rates between **2 to 10 liters/min**. Extreme care must be given to avoid overload on the filter surface.

Air sampling equipment shall not be placed in corners or near obstructions. Locations near vents and other structures on the roof which would unduly affect airflow shall be avoided.

The work area shall be allowed to dry completely before the visual inspection is conducted. The visual inspection shall confirm the absence of visible debris in the work area, including but not limited to the roof surface, the gutters, the drains, parapets, etc. A technician must be available in the vicinity when the area is dry to perform the visual inspection.

Air sampling shall be considered satisfactory when each sample is found to be below **70 s/mm²** by TEM analysis. Post abatement clearance air sampling shall not be required provided that all samples collected during the clean-up activities are **below 70 s/mm²**.

E. Reports and Billing

Type analytical reports and count sheets shall be transmitted to the NYC DEP {**Fax (718) 595-6307 and (718) 595-3744**} within 15 hours of the sampling end time. Each report must be submitted with the corresponding chain of custody form. The DEP will require typed clearance inspection reports signed by the technician who performed the inspection for each abatement site. The original reports shall be mailed to the NYC DEP along with the invoice within 7 days after the reports were faxed. The invoice for each job will itemize cost, specifying the service performed, turnaround time and quantities. **All report shall be mailed to the attention of Mr. L. Atteloney at New York City, Department of Protection, 96-05-Horace Harding Expressway, 6th floor, Corona, N.Y. 11368**