HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL

PROJECT NUMBER: 2001486

Asbestos Survey
Employment Development Department
Stockton Building
135 West Fremont Street
Stockton, CA 95202

CSC LOCAL OFFICE: Pleasanton

CLIENT: Department of General Services
Mr. Conrad Lewis, Project Manager
Real Estate Services Division
Professional Services Branch
707 3rd Street, 4th Floor
West Sacramento, CA 95605

January 23, 2007

PURPOSE AND SCOPE

This Asbestos Survey Report has been prepared by Clark Seif Clark, Inc. (CSC) for Mr. Conrad Lewis of the State of California Department of General Services, Real Estate Services Division, Professional Services Branch under Contract No. 3064220, Task Order No. 27.

The purpose of this investigation was to identify, sample and test suspect asbestos-containing materials (ACM), which may be present within the Stockton Employment Development Department (EDD) Building located at 135 West Fremont Street in Stockton, California. The building survey was performed in accordance with the Asbestos Hazard Emergency Response Act (AHERA). Mr. Wes Chase, Cal-OSHA Site Surveillance Technician No. 06-4051, and Mr. Jason Ziswasser, Cal-OSHA Site Surveillance Technician No. 06-3995, of Clark Seif Clark, Inc. conducted the survey on December 14, 2006.

INSPECTION PROCEDURE

Visual Survey: The Visual Survey consisted of a walk-through and visual inspection of the facility. It included the identification of all suspect asbestos containing materials (ACM) and asbestos-containing building materials (ACBM) and the physical touching of suspect ACBM in an effort to determine the friability and condition of said materials.

In surveying the building, the building inspectors used their training and experience in performing asbestos surveys for identifying asbestos-containing materials, and our familiarity with building construction and our general experience to locate potential sources of ACM and ACCM.

Bulk Material Sampling: The next phase of the survey was the selection of sampling areas and collection of bulk samples. Material sampling areas were grouped based on material homogeneity. A homogeneous material is one that contains the same texture, color, and uniform, and was applied during the same general time period. Samples were obtained in accordance with the Asbestos Hazard Emergency Response Act.

Measurements: Material quantities were also estimated. For extensive materials such as floor tile, ceiling tile and wall/ceiling plasters, general functional space dimensions were used. Such measurements provide "approximate square or linear footage" 40 CFR Part 763.93 (d)(2)(ii).

Air Monitoring: At the time of the survey, CSC collected ambient and personal air samples to determine exposure to airborne fibers during the inspection.

SAMPLING PROCEDURES

Bulk samples of suspect asbestos-containing materials were collected in accordance with the Asbestos Hazard Emergency Response Act (AHERA). Sampling locations selected in an effort to obtain an accurate representation of the homogeneous material. Efforts were made to select sampling locations which were discrete and which would cause as little disturbance to that material and to nearby materials as possible. Some materials were encountered where sampling was not possible without creating severe visual blemishes to those materials. The site inspectors identified these materials as presumed asbestos containing materials (PACM). After collection, the sampling locations were documented and samples were labeled and sealed in leak proof containers for transportation to an accredited laboratory.

Samples were analyzed in accordance with the procedures outlined in the United States Environmental Protection Agency (EPA) "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116, July 1993). This method employs Polarized Light Microscopy (PLM) with dispersion staining to identify the type and approximate quantity of asbestos present in the sample, if any.

The EPA defines an **Asbestos-Containing Material (ACM)** as one containing ***greater than one percent asbestos*** as determined by visual area estimation, in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part61 subpart M, dated November 20, 1990]. Note, however, that the California Division of Occupational Safety and Health (Cal/OSHA) defines an **Asbestos Containing Construction Material (ACCM)** as any manufactured construction material containing ***greater than one-tenth of one percent asbestos*** by weight.

One aspect of analysis using visual area estimation is the inherent subjectivity of analytical results, particularly with respect to determination of the actual levels of asbestos in a material. While there is rarely any dispute over whether or not a material contains asbestos at all, variations in the amount of asbestos in a given material are common. Statistically, when analyzing asbestos levels in a material, the confidence interval of the amount estimated diminishes as the level of asbestos in the material decreases. Therefore, CSC believes it is prudent to assume *any* level of asbestos whatsoever to be greater than one-tenth of one percent, and thus subject to regulation.

According to the National Emission Standards for Hazardous Air Pollutants asbestos revision, Final Rule (40 CFR, Part 61, 11/20/90), for any sample which has been reported by visual area estimation to contain less than 10 percent asbestos by PLM analysis, the owner or operator of the building from which the sample was obtained may (1) elect to assume the amount to be greater than 1 percent and treat the materials as asbestos-containing material or (2) require verification of the amount by point count analysis. If a result obtained by point counting is different from a result obtained by visual area estimation by PLM analysis, the point counting result will be used.

Clark Seif Clark Laboratory is accredited under the National Institute of Standards and Technology (NIST) and the National Voluntary Laboratory Accreditation Program (NVLAP).

SUSPECT ASBESTOS CONTAINING MATERIALS

The following materials at the site were identified as suspect asbestos-containing materials (unless otherwise indicated), and sampled to determine possible asbestos content:

M#	Spec #	Specification Name	Material Description
1	99999	Other Materials	Carpet glue, yellow [beneath multi-colored carpet]
2	99999	Other Materials	Carpet glue, yellow [beneath blue carpet]
3	9660	Resilient Flooring (Tiles)	12"x12" floor tile, white speckled pattern with yellow mastic
4	9660	Resilient Flooring (Tiles)	12"x12" floor tile, beige 'smeared' pattern with brown mastic

M#	Spec #	Specification Name	Material Description
5	9660	Resilient Flooring (Tiles)	9"x9" floor tile, brown 'smudged' pattern with black mastic
6	9660	Resilient Flooring (Tiles)	9"x9" floor tile, beige with black mastic
7	9665	Resilient Flooring (Sheet)	Sheet flooring, beige/multicolor with grey mastic and brown felt
8	9666	Wall Base	6" wall base, dark blue with white adhesive
9	9666	Wall Base	6" wall base, blue with white adhesive
10	9666	Wall Base	6" wall base, grey with white adhesive
11	9666	Wall Base	6" wall base, black with brown adhesive
12	9666	Wall Base	4" wall base, brown with yellow adhesive
13	9255	Gypsum Wallboard	White painted gypsum wallboard system with "orange peel" texture
14	9255	Gypsum Wallboard	White painted gypsum wallboard system with smooth texture
15	9255	Gypsum Wallboard	White painted gypsum wallboard system with smooth texture
16	9255	Gypsum Wallboard	White painted gypsum wallboard system with troweled texture
17	9255	Gypsum Wallboard	White painted gypsum wallboard system with "orange peel" texture
18	9255	Gypsum Wallboard	Gypsum wallboard system with no texture
19	9251	Wall Texture	Mudded texture ceiling
20	4565	Masonry Firebrick	Cement mortar unit, grey/tan
21	4565	Masonry Firebrick	Brick mortar, tan
22	9211	Finish plaster	White finish plaster
23	9512	Acoustical (panels)	2'x4' uniform pinhole ceiling panel, white
24	9512	Acoustical (panels)	2'x4' pinhole/fissured ceiling panel, grey
25	9511	Acoustical (tiles)	12"x12" uniform pinhole ceiling tiles, white/tan, with brown ceiling tile mastic
26	9511	Acoustical (tiles)	12"x12" pinhole ceiling tiles, white/tan, with brown ceiling tile mastic,
27	7900	Sealant	Beige penetration mastic

M#	Spec #	Specification Name	Material Description
28	7900	Sealant	Red penetration mastic
29	7900	Sealant	Clear exterior window caulking
30	7900	Sealant	Exterior door caulking, black
31	7900	Sealant	Exterior door caulking, grey/white
32	7900	Sealant	Black roof penetration mastic
33	7900	Sealant	Roof caulking, grey
34	7325	Roof Shingles	Roofing shingles, black
35	15290	Duct Insulation	HVAC duct insulation, foil-wrapped yellow
36	15260	Pipe insulation (Low Temp)	Pipe insulation, green with white cloth wrap
37*	15270	Pipe insulation (High Temp)	Pipe insulation, yellow with white wrap*
38*	99999	Other materials	Ceramic tile grout*
39†	8306	Fire Doors	20 minute fire doors†
40*	99999	Other materials	HVAC vibration collar*

†: material is presumed to be asbestos-containing (PACM) – no samples collected
*: material is not suspected to be asbestos-containing – no samples collected

ASBESTOS CONTAINING MATERIALS (as determined by PLM analysis & visual inspection)

CSC collected a total of two hundred thirteen (213) bulk samples of suspect asbestos containing materials for analysis. Of these and according to the inspector's visual inspection of presumed asbestos containing materials (PACM), the materials in the following table tested positive for asbestos. A complete list of all samples collected and analyzed can be found attached to this document.

M#	Material Description	Asbestos (% and Type)	Friable ACM (Y/N)	Material Locations (All locations where material is found)
4	12"x12" floor tile, beige 'smeared' pattern with brown mastic	3% *Anthophyllite* (mastic)	N	Room 109 [stairwell] and Room 126 [west entrance vestibule].
5	9"x9" brown 'smudged' floor tile with black mastic	2-3% *Chrysotile* (tile) 8-10% *Chrysotile* (mastic)	N	Room 103 [electrical room (lobby)].
6	9"x9" beige 'smudged' floor tile with black mastic	2-3% *Chrysotile* (tile) 8-10% *Chrysotile* (mastic)	N	103 [electrical room (lobby)], 204 [employee] beneath carpet, and 207 [hallway] beneath carpet.

#	Material Description	Asbestos (% and Type)	Friable ACM (Y/N)	Material Locations (All locations where material is found)
1	Brown adhesive (behind 6" black wall base cove)	3% *Anthophyllite*	N	103 [electrical room (lobby)], and 202 [Tel/data]
2	Black penetration mastic	2%-3% *Chrysotile*	N	302 [Roof] around pipe penetrations and at seams/patches
9	20 Minute Fire Doors	PACM	Y	104 [janitor (lobby)], 106 [storage closet], 107 [hallway (southeast)], 108 [stairwell hallway], 110 [storage room], 111 [women's restroom], 112 [men's restroom], 113 [hallway], 114 [mail room], 116 [tel/data room], 119 [office], 138 [elevator mech. room]

PACM: Presumed asbestos-containing material (no samples collected)

The asbestos survey was performed by Mr. Wes Chase, Cal-OSHA Site Surveillance Technician No. 06-4051, and Mr. Jason Ziswasser, Cal-OSHA Site Surveillance Technician No. 06-3995.

CONCLUSION

According to bulk sampling and visual inspection, asbestos-containing materials were identified at the facility. Those materials that are presumed asbestos containing materials (PACM) should be sampled to verify or to negate asbestos content prior to disturbing the materials. The identified asbestos containing materials within the building are non-friable and currently in a good condition and do not pose an asbestos exposure risk to the occupants of the building. It will be necessary to comply with the pertinent provisions of EPA, OSHA and local APCD regulations during any removal or repair activities that may disturb the asbestos-containing materials.

We have employed state-of-the-art practices to perform this asbestos survey, but this evaluation is limited in scope to areas accessible to a visual inspection or through reasonable means of the areas evaluated. No demolition or product review was performed in attempts to reveal material compositions. Our services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles and practices and are designed to provide an analytical tool to assist the client. Clark Seif Clark or those representing Clark Seif Clark bear no responsibility for the actual condition of the structure or safety of a site pertaining to asbestos and/or asbestos contamination regardless of the actions taken by the client.

CSC has endeavored to observe the existing conditions within the facility using generally accepted procedures. Regardless of the thoroughness of a survey, there is always a possibility some areas containing asbestos were overlooked or were inaccessible, or are different from those at specific sample locations. Therefore, conditions at every location may not be as anticipated by our field representative. In addition, renovation or construction activities may uncover altered or differing conditions.

The material quantities listed within this document are not intend to be used for removal bidding purposes. This document also is not intended for use as a contract manual. Work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals and notifications should in all cases be addressed in a separate and independent bidding and contract document.

Clark Seif Clark appreciated having the opportunity to inspect your property. If you have any questions regarding this survey or other environmental hazards, please don't hesitate to contact us at (818) 727-2553 or 1 (800) 807-1118.

Reported By:

Christian Goerrissen- Project Manager
CAC No. 00-2840
Clark Seif Clark, Inc.

Attachments:

Site Diagram (1 page)
Room Designation Form (6 pages)
Material Designation Form (6 pages)
Room Assessment Form (58 pages)
Asbestos Sample Chains of Custody (9 pages)
Asbestos Sample Laboratory Results (13 pages)
Photo log (5 pages)
Asbestos inspectors certification (2 pages)