ENTEK
CONSULTING GROUP, INC.
4200 Rocklin Road, Suite 7 Rocklin, CA 95677 Telephone (916) 632-6800 Fax (916) 632-6812

July 31, 2007

Mr. Leroy A. Christophersen, PHR
Safety & Loss Control Coordinator
Chico Unified School District
2455 Carmichael Drive
Chico, CA 95928

RE: Triennial AHERA Three-Year Reinspection

Dear Mr. Christophersen:

Enclosed is the data obtained from the AHERA Three-Year Reinspections Entek Consulting Group (Entek) conducted between April 11, 2007 and May 10, 2007. The documents included with this letter are the "Three-Year Reinspection Homogeneous ACBM Material Records" covering all buildings known from the original inspection to contain ACBM. The sites inspected were Academy for Change, Bidwell Junior High, Chapman Elementary, Chico Country Day, Chico Junior High School, Chico Senior High School, Citrus Elementary, Cohasset Elementary, Corporation Yard, District Office, Fair View High School, Hooker Oak Elementary, Loma Vista Elementary, Marigold Elementary, McManus Elementary, Neal Dow Elementary, Nord Elementary, Parkview Elementary, Pleasant Valley High School, Rosedale Elementary, Shasta Elementary, and Sierra View Elementary Schools. These are also provided on the enclosed diskette as per our contract. In an effort to assist with your Six-Month Surveillances, Entek has included on the CD blank forms with the current data from the Three-Year Reinspections.

You should review the updated Homogeneous Materials Reports to familiarize yourself with the current status of asbestos containing materials and identified suspect asbestos materials. It is the District's responsibility to assure that the school's site copy of the Management Plan is up to date and consistent with the District's Management Plan for that site. This is very important, and if not done can cause the District to be penalized during an EPA site visit or investigation.

Entek wants to remind you that materials containing "trace" amounts of asbestos must be considered in the event of renovations or demolitions. Although building materials containing trace amounts of asbestos (<1%) are not regulated under EPA, Cal/OSHA does regulate work practices with materials containing 0.1% asbestos. The original AHERA inspection contains information regarding materials with trace amounts of asbestos.

Entek collected two (2) asbestos bulk samples during the reinspections. One sample was collected at Loma Vista Elementary School and one at Chico High School. See the results of each sample in the following tables.

**Loma Vista Elementary School; Unit A, North Building**

| Suspect Materials Found or Assumed TO Contain >1% Asbestos Content (RACM) | | | |
|---|---|---|---|
| **Material** | **Asbestos Content** | **Location** | **Entek Sample Number** |
| White 12" Floor Tile | 1-5% Chrysotile | South East Corner of Room 16 Near Room 13 | ECG-07-465-01A |

| Suspect Materials Found NOT TO Contain Asbestos or Considered Non-Suspect | | | |
|---|---|---|---|
| **Material** | **Asbestos Content** | **Location** | **Entek Sample Number** |
| Yellow Mastic | None Detected | South East Corner of Room 16 Near Room 13 | ECG-07-465-01A |

ENTEK



**Chico High School, Building LH-800, MPR**

| Suspect Materials Found NOT TO Contain Asbestos or Considered Non-Suspect | | | |
|---|---|---|---|
| **Material** | **Asbestos Content** | **Location** | **Entek Sample Number** |
| White Linoleum on Columns | None Detected | **Building LH-800, MPR** | ECG-07-465-02A |
| Yellow Mastic | None Detected | **Building LH-800, MPR** | ECG-07-465-02A |

When you provide your annual notification to parents and staff, include information regarding this three-year reinspection. Enclosed is a suggested format for your notification letter. Please note that you must include in your Management Plans a description of the steps you take to notify. It is also important that your Management Plans be updated after any and all actions conducted which impact asbestos containing materials.

Please remember that Entek did not inspect new buildings or portable classrooms which were placed on the District sites since the original EPA AHERA inspection. It is the District's responsibility to obtain letters of certification from the Architect, Construction Superintendent, or manufacturer of new building materials, indicating there is no asbestos in the new buildings (constructed after October 12, 1988) or new building materials. A copy of these certification letters must be included in your Management Plans, both at the school site and at the LEA Designees office site. It is still required of School Districts to send a copy of these certification letters to the US EPA AHERA unit; Region IX in San Francisco.

It is not necessary to send a copy of the three-year reinspection to the OPSC or EPA. However, the report should be included in your Management Plan. I want to thank you for your cooperation. If you have any questions, please feel free to contact me at (916) 632-6800.

Sincerely,

William Esparza

William Esparza
Certified Asbestos Consultant
DOSH #99-2579

Enclosures

Z:\Shannon\3-YEAR REINSPECTIONS\Chico USD\2007\Final.Ltr7-31-07.wpd

Below is a suggested letter to district personnel, building occupants, and parents that meets the AHERA requirement of annual notification. Regardless of the notification letter used, a signed and dated copy should be included in the Management Plan. The AHERA designee must also include in the Management Plan a brief statement describing the steps taken to notify. Include the date(s) of the six-month surveillances, and include any other actions taken with regards to asbestos.

Date:

To: Parents, PTA, Teachers, Maintenance, Staff

From: AHERA Designee

RE: Asbestos Hazard Emergency Response Act (AHERA) Asbestos Inspections and Management Plans.

Chico Unified School District has hired Entek Consulting Group, Inc. (Entek), to complete the required three-year reinspection of all asbestos-containing building materials in the District. The reinspections for Academy for Change, Bidwell Junior High, Chapman Elementary, Chico Country Day, Chico Junior High School, Chico Senior High School, Citrus Elementary, Cohasset Elementary, Corporation Yard, District Office, Fair View High School, Hooker Oak Elementary, Loma Vista Elementary, Marigold Elementary, McManus Elementary, Neal Dow Elementary, Nord Elementary, Parkview Elementary, Pleasant Valley High School, Rosedale Elementary, Shasta Elementary, and Sierra View Elementary Schools were completed between April 11, 2007 and May 10, 2007 by an accredited inspector, and the reinspection data has been incorporated into the Management Plan.

Also, during the past year the District has performed the required six-month surveillances on _____. This information is also incorporated into the Management Plan.

A copy of the District's Management Plan is available for review during normal office hours in the office of the _____. If copies of the plan are desired, a nominal duplicating fee may be charged.

_____

Authorized Signature

_____

Date

State of California
Division of Occupational Safety and Health

**Certified Asbestos Consultant**

**William Esparza**

Name

Certification No. **99-2579**

Expires on **05/03/08**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code

COEH CENTER FOR OCCUPATIONAL & ENVIRONMENTAL HEALTH

University of California Berkeley

This certifies that

# *William Esparza*

has attended the eight hour course

## AHERA Refresher for Asbestos Inspectors & Management Planners

and has completed the requisite training for asbestos accreditation under TSCA Title II

February 5, 2007

Course Date

*COEH Director*

*Continuing Education Director*

**Date of Exam:** February 5, 2007
**Expiration Date:** February 5, 2008

**Certificate Number:** BIMP305
**Cal/OSHA Approval Number:** CA-002-06 / CA-002-08

Center for Occupational and Environmental Health Continuing Education Program
UC Berkeley Mailcode 5120, 2223 Fulton Street, 2nd Floor, Berkeley, CA 94720-5120 Ph: (510) 643-7277 Fax: (510) 643-7291

ASBESTECH
6825 Fair Oaks Blvd., Suite 103
Carmichael, California 95608
Tel.(916) 481-8902 Fax (916) 481-3975

***Client:***
Entek Consulting Group, Inc.
4200 Rocklin Rd., Suite 7
Rocklin, CA 95677

***Job:***
07-465 Chico USD
Loma Vista Elementary
Unit A, North Bldg., Chico, Ca

# BULK ASBESTOS ANALYSIS REPORT

LAB JOB # 50277
Date/Time Collected: 5/10/07
Date Received: 5/21/07

NVLAP # 101442
DOHS # 1153
Date Analyzed: 5/22/07

| *Sample No.* | *Color/Description* | *% Type Asbestos* | *Other Materials* |
|---|---|---|---|
| ECG-07-465-01A | White 12" floor tile, SE corner of room 16 near room 13 | 1-5 CHRYSOTILE | Granular Mins. |
| | Yellow mastic | NONE DETECTED | Synthetics |

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A),THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.

**NVLAP** LABORATORY DIRECTOR: TOM CONLON ANALYST: JIM JUNGLES

50277

# BULK ASBESTOS MATERIAL *Analysis Request Form for Entek Consulting Group, Inc.*

4200 ROCKLIN ROAD, STE. 7
ROCKLIN, CA 95677
(916) 632-6800
FAX (916) 632-6812

**JOB I.D.:** 07-465 **CLIENT:** Chico Unified School District **COLLECTED BY:** William Esparza

**DATE COLLECTED:** 05/10/07 **DATE SUBMITTED:** 05/21/07 **LAB SUBMITTED TO:** Asbestech

**SPECIAL INSTRUCTIONS:**

**ANALYSIS REQUESTED:** PLM with Dispersion Staining **TURNAROUND TIME:** 24 Hours

**JOB SITE:** Loma Vista Elementary School
Unit A (North Building)
2404 Marigold Avenue,
Chico, California 95926

| SAMPLE # | MATERIAL DESCRIPTION/LOCATION |
|---|---|
| ECG-07-465-01A | 12" Floor Tile and Mastic, SE Corner of Room 16, Near Room 13 |

C:\Entek\Clients\Chico USD\07-465 Chico 3 Year Inspections\Bulk Asbestos Request 05-10-07.wpd

**DELIVERED BY:** Shannon Johnson **DATE:** 5-21-07

**RECEIVED BY:** [signature] **DATE:** 5/21/7

ASBESTECH
6825 Fair Oaks Blvd., Suite 103
Carmichael, California 95608
Tel.(916) 481-8902 Fax (916) 481-3975

***Client:***
Entek Consulting Group, Inc.
4200 Rocklin Rd., Suite 7
Rocklin, CA 95677

***Job:***
07-465 Chico USD
Chico HS, Bldg. LH-800, MPR
Chico, Ca

# BULK ASBESTOS ANALYSIS REPORT

LAB JOB # 50276
Date/Time Collected: 5/11/07
Date Received: 5/21/07

NVLAP # 101442
DOHS # 1153
Date Analyzed: 5/22/07

| *Sample No.* | *Color/Description* | *% Type Asbestos* | *Other Materials* |
|---|---|---|---|
| ECG-07-465-02A | White linoleum on columns | NONE DETECTED | Vinyl Cellulose |
| | Yellow mastic | NONE DETECTED | Synthetics |

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A),THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.

**NVLAP** LABORATORY DIRECTOR: TOM CONLON ANALYST: JIM JUNGLES

50276

# BULK ASBESTOS MATERIAL *Analysis Request Form for Entek Consulting Group, Inc.*

4200 ROCKLIN ROAD, STE. 7
ROCKLIN, CA 95677
(916) 632-6800
FAX (916) 632-6812

**JOB I.D.:** 07-465 **CLIENT:** Chico Unified School District **COLLECTED BY:** William Esparza

**DATE COLLECTED:** 05/11/07 **DATE SUBMITTED:** 05/21/07 **LAB SUBMITTED TO:** Asbestech

**SPECIAL INSTRUCTIONS:**

**ANALYSIS REQUESTED:** PLM with Dispersion Staining **TURNAROUND TIME:** 24 Hours

**JOB SITE:** Chico Senior High School
Building LH-800, Multi-Purpose Room
901 The Esplanade,
Chico, California 95926

| SAMPLE # | MATERIAL DESCRIPTION/LOCATION |
|---|---|
| ECG-07-465-02A | Linoleum on Columns |

C:\Entek\Clients\Chico USD\07-465 Chico 3 Year Inspections\Bulk Asbestos Request 05-11-07.wpd

**DELIVERED BY:** Shannon Johnson **DATE:** 5-21-07

**RECEIVED BY:** [signature] **DATE:** 5/21/7 ; 1042

# RECORD OF FRIABLE AND NONFRIABLE ACM
(FORM B)

Inspection Date(s) May 10, 2007

THREE-YEAR REINSPECTION

| | |
|---|---|
| | CDS CODE<br>04-61424-0000000 |
| SCHOOL<br>DISTRICT OFFICE | SCHOOL PHONE NUMBER<br>(530) 898-3000 |

| ADDRESS (NUMBER) | (STREET) | (CITY) | (ZIP) |
|---|---|---|---|
| 1163 E. Seventh Street | | Chico, CA | 95928 |

**-IMPORTANT-**

Each building and functional space with friable ACBM or friable assumed ACBM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

| LINE | BUILDING NAME & FUNCTIONAL SPACE (Indicate Address if Different From Above) | CHECK ONE | | | CHECK ONE | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | ACBM | | ASSUMED ACBM | |
| | | SURFACING | TSI | MISC | FRIABLE | NON-FRIABLE | FRIABLE | NON-FRIABLE |
| 1. | DISTRICT OFFICE | | X | | X | | | |
| 2. | PSYCHOLOGIST BUILDING **DISTRICT MUST CERTIFY** | | | | | | | |
| 3. | UST BUILDING **DISTRICT MUST CERTIFY** | | | | | | | |
| 4. | | | | | | | | |
| 5. | | | | | | | | |
| 6. | | | | | | | | |
| 7. | | | | | | | | |
| 8. | | | | | | | | |
| 9. | | | | | | | | |
| 10. | | | | | | | | |
| 11. | | | | | | | | |
| 12. | | | | | | | | |
| 13. | | | | | | | | |
| 14. | | | | | | | | |
| 15. | | | | | | | | |
| 16. | | | | | | | | |
| 17. | | | | | | | | |

**See attached "Homogeneous Materials Records" for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable material is provided. Friable materials and their locations are listed separately under each building on Form B.**

**THREE-YEAR REINSPECTION**
**HOMOGENEOUS ACBM RECORDS**

Date of Inspection: May 10, 2007

District: Chico Unified School District

Inspector: William Esparza

School: District Office

Building: District Office

| Material Class | Material | Homo. Mat. # | % Asb. | $Ft^2$/L.F. | Location | Condition: Code & Comments | Friable Yes/No |
|---|---|---|---|---|---|---|---|
| T | PIPE WRAP DEBRIS | 7 | 25-35% | 25 S | BASEMENT CRAWL SPACE | (11) COULD NOT FIND POSSIBLE REMOVED. DID NOT ACCESS. SAMPLE HMS-DO-07C COLLECTED ON 4-1-88. | Y |
| T | PIPE WRAP STRAIGHT | 8 | 80-85% | 350 L | BASEMENT CRAWL SPACE | (11) COULD NOT FIND POSSIBLE REMOVED. DID NOT ACCESS. (FORMALLY KNOWN AS HOMO MAT. #7.) SAMPLE HMS-DO-07A COLLECTED ON 4-1-88. | Y |
| T | PIPE WRAP JOINT | 9 | 10-15% | 350 L | BASEMENT CRAWL SPACE | (11) COULD NOT FIND POSSIBLE REMOVED. DID NOT ACCESS. (FORMALLY KNOWN AS HOMO MAT. #7.) SAMPLE HMS-DO-07B COLLECTED ON 4-1-88. | Y |

CONDITION CODE

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (25% or more)
Change in Condition: (4) No (5) Yes (If Yes, explain under comments)
Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
Miscellaneous: (11) Inaccessible, no inspection data (12) Other (Explain under comments) (13) Non-Asbestos/Not Inspected

**CONSULT ORIGINAL AND SUPPLEMENTARY INSPECTION REPORTS FOR MATERIALS WITH TRACE AMOUNTS OF ASBESTOS**

# ENTEK CONSULTING GROUP, INC.
# ASSESSMENT OF TSI and/or FRIABLE MATERIAL

District: Chico Unified School District — Date: May 10, 2007

School: District Office — Inspector: William Esparza

Building & Location(s): Basement Crawl Space (Functional Area)

Sample#: HMS-DO-07C — % Asbestos- 25-35% — Homogeneous Mat. #7

Material description: Pipe Wrap Debris

Total amount of material this location: 25 S — Amount of friable material this location: 25 S

| | | | | | | |
|---|---|---|---|---|---|---|
| Damage | Local | | Distributed | X | Damaged | 98 -99% |
| Type of Damage | Air Erosion | X | Water | X | Flaking | X |
| | Deterioration | X | Physical | X | Delamination | |

Probable cause(s) of damage: Unknown

| POTENTIAL FOR DISTURBANCE | | | | RESPONSE ACTIONS | | PREVENTIVE MEASURES | |
|---|---|---|---|---|---|---|---|
| | H | M | L | Isolate/Restrict | | Fix leaks | X |
| Accessibility | X | | | Repair/Cleanup | X | Prevent water contact | X |
| Vibration | | | X | Enclose | | Do not drill, cut, sand, or grind | X |
| Air Erosion | | X | | Remove | X | Do not affix signs | X |
| Water | | X | | Encapsulate | | Avoid contact | X |
| Occupancy | | | X | O & M | | | |

**Assessment of Material Condition**

| Significantly Damaged (Poor) | Damaged (Fair) | Not damaged (Good) |
|---|---|---|
| ☐ | ☐ | ☐ |

| Potential Damage: | High | | High | Mod | Low | | High | Mod | Low |
|---|---|---|---|---|---|---|---|---|---|
| Hazard Ranking: | 1 | | 2 | 3 | 4 | | 5 | 6 | 7 |
| | | | | | | | | | |

Comments & Observations: Was instructed by Leroy Christopher not go into the basement crawl space. Possibly removed and could not locate.

# ENTEK CONSULTING GROUP, INC.
# ASSESSMENT OF TSI and/or FRIABLE MATERIAL

District: Chico Unified School District — Date: May 10, 2007

School: District Office — Inspector: William Esparza

Building & Location(s): Basement Crawl Space

Sample#: HMS-DO-07A — % Asbestos- 80-85% — Homogeneous Mat. #8

Material description: Pipe Wrap Straight

Total amount of material this location: 350 L — Amount of friable material this location: 350 L

| | | | | | | |
|---|---|---|---|---|---|---|
| Damage | Local | | Distributed | X | Damaged | 98% |
| Type of Damage | Air Erosion | X | Water | X | Flaking | X |
| | Deterioration | X | Physical | X | Delamination | |

Probable cause(s) of damage: Unknown

| POTENTIAL FOR DISTURBANCE | | | | RESPONSE ACTIONS | | PREVENTIVE MEASURES | |
|---|---|---|---|---|---|---|---|
| | H | M | L | Isolate/Restrict | | Fix leaks | |
| Accessibility | X | | | Repair/Cleanup | X | Prevent water contact | |
| Vibration | | | X | Enclose | | Do not drill, cut, sand, or grind | X |
| Air Erosion | | X | | Remove | X | Do not affix signs | X |
| Water | | X | | Encapsulate | | Avoid contact | X |
| Occupancy | | | X | O & M | | | |

**Assessment of Material Condition**

| Significantly Damaged (Poor) | Damaged (Fair) | Not damaged (Good) |
|---|---|---|
| ☐ | ☐ | ☐ |

| Potential Damage: | High | | High | Mod | Low | | High | Mod | Low |
|---|---|---|---|---|---|---|---|---|---|
| Hazard Ranking: | 1 | | 2 | 3 | 4 | | 5 | 6 | 7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

Comments & Observations: Was instructed by Leroy Christopher not go into the basement crawl space. Possibly removed and could not locate.

# ENTEK CONSULTING GROUP, INC.
# ASSESSMENT OF TSI and/or FRIABLE MATERIAL

District: Chico Unified School District — Date: May 10, 2007

School: District Office — Inspector: William Esparza

Building & Location(s): Basement Crawl Space

Sample#: HMS-DO-07B — % Asbestos- 10-15% — Homogeneous Mat. #9

Material description: Pipe Wrap Joint

Total amount of material this location: 350 L — Amount of friable material this location: 350 L

| | | | | | | |
|---|---|---|---|---|---|---|
| Damage | Local | | Distributed | X | Damaged | 98% |
| Type of Damage | Air Erosion | X | Water | X | Flaking | X |
| | Deterioration | X | Physical | X | Delamination | |

Probable cause(s) of damage: Unknown

| POTENTIAL FOR DISTURBANCE | | | | RESPONSE ACTIONS | | PREVENTIVE MEASURES | |
|---|---|---|---|---|---|---|---|
| | H | M | L | Isolate/Restrict | | Fix leaks | |
| Accessibility | X | | | Repair/Cleanup | X | Prevent water contact | |
| Vibration | | | X | Enclose | | Do not drill, cut, sand, or grind | X |
| Air Erosion | | X | | Remove | X | Do not affix signs | X |
| Water | | X | | Encapsulate | | Avoid contact | X |
| Occupancy | | | X | O & M | | | |

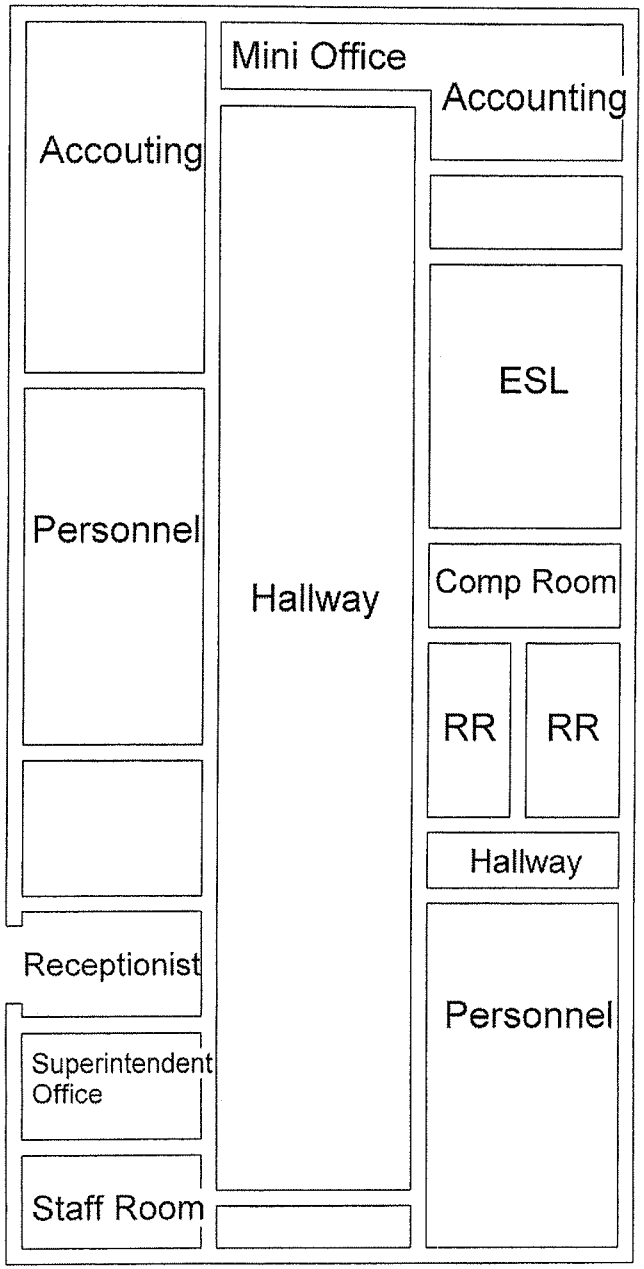
**Assessment of Material Condition**

| Significantly Damaged (Poor) | Damaged (Fair) | Not damaged (Good) |
|---|---|---|
| ☐ | ☐ | ☐ |

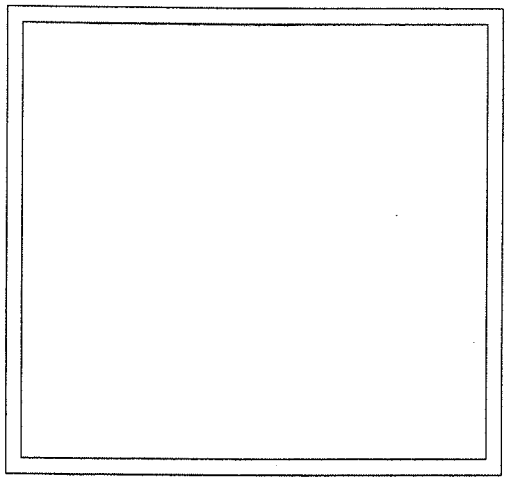
| Potential Damage: | High | | High | Mod | Low | | High | Mod | Low |
|---|---|---|---|---|---|---|---|---|---|
| Hazard Ranking: | 1 | | 2 | 3 | 4 | | 5 | 6 | 7 |
| | | | | | | | | | |

Comments & Observations: Was instructed by Leroy Christopher not go into the basement crawl space. Possibly removed and could not locate.

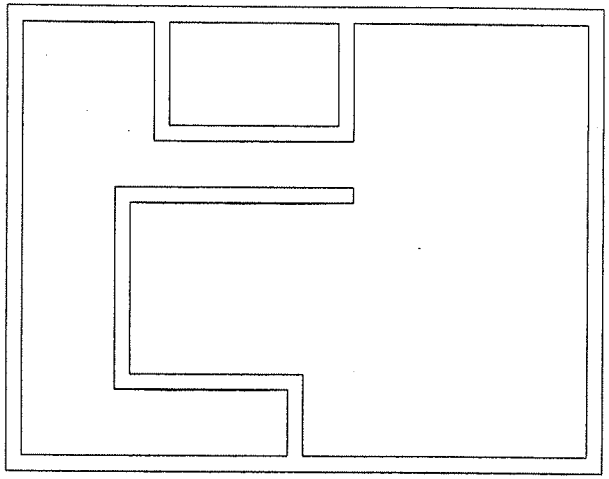
Admin District Office Building




Psychologist Building



UST Building



# District Office
# 1163 E. Seventh Street
# Chico, CA 95928
# Map Not To Scale

Three-Year Reinspection
Conducted By: William Esparza
Entek Consulting Group, Inc.
May 10, 2007

Conference Room Unit D, 106 District Office

# RESILIENT TILE FLOORING 09658

AZROCK by Tarkett

**1. Product Name**
Azrock Vinyl Composition Tile (VCT)
- Cortina Colors
- Cortina Complements
- Cortina SD
- Solids
- Classic Granite
- Classic Granite SR
- Thru-Quartz
- CortinaStone
- Plaza Marble
- StoneGlow

**2. Manufacturer**
Azrock
A Brand of Tarkett Commercial
1705 Oliver Street
Houston, TX 77007
(713) 366-2689
Fax: (713) 869-5271
E-mail: AzTech@tarkett.com
www.tarkett.com

**3. Product Description**
BASIC USE
Azrock Vinyl Composition Tile (VCT) is recommended for use in high traffic applications where a smooth surfaced, easily maintained, durable, long-wearing floor is required. Recommended areas of use are:
- School offices, classrooms and corridors
- Commercial office areas
- Hospital lobbies, patient rooms and corridors
- Retail stores

COMPOSITION & MATERIALS
Azrock resilient floor tile is available in 1/8" (3.2 mm) nominal thicknesses. Selected Cortina Colors tile are also available in a 3/32" (2.4 mm) thickness. Color and pattern details are dispersed uniformly throughout the thickness of the product.

SIZES
- Nominal overall thickness - 1/8" (3.2 mm)
- Size – All styles of VCT come in a 12" × 12" (305 × 305 mm)
- Area per carton - 45 ft² (4.2 m²)
- Weight per carton - 62 lb (28 kg)

COLORS
- Cortina colors- 53 colors
- Cortina Complements- 7 colors
- Solids- 16 colors
- Classic Granite- 9 colors
- Classic Granite SR- 9 colors
- Thru-Quartz- 15 colors
- CortinaStone- 14 colors
- Plaza Marble- 5 colors
- StoneGlow- 5 colors

LIMITATIONS
These products are unsuitable for concrete substrates where hydrostatic pressure or excessively alkaline conditions exist. Concrete floors containing curing agents, sealers or hardeners are not suitable. Do not install over gypsum type underlayment or patching compounds.

Unsuitable substrates or any other conditions that are obviously unsuited to good installation should not be considered acceptable, even if those conditions are not listed in the paragraph above.

**4. Technical Data**
APPLICABLE STANDARDS
ASTM International
- ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish- Coated Floor Surfaces as Measured by the James Machine
- ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
- ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
- ASTM F150 Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring
- ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM F970 Standard Test Method for Static Load Limit
- ASTM F1066 Standard Specification for Vinyl Composition Floor Tile
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- ASTM FM1678 Standard Test Method for Using a Portable Articulated Strut Slip Tester (PAST)

APPROVALS
Consult manufacturer for current information on compliance with requirements of specific agencies and/or building code jurisdictions.

PHYSICAL/CHEMICAL PROPERTIES
- Product classification (ASTM F1066) - Class 2,Through Pattern
- Static load limit (ASTM F970) ≥ 125psi (861 kPa)
- Static load limit (ASTM F970) (Cortina SD)- 75 psi (517kPa)
- Static coefficient of friction (ASTM D2047)- 0.6
- Azrock VCT exceeds minimum requirement of 0.6 static coefficient of friction per ASTM D2047.

Azrock VCT exceeds minimum ADA requirements of 0.6 (Slip Resistant 0.8) static coefficient of friction per ASTM F1678.

Although Azrock VCT meets the recommendations for a safe walking surface, tiles are always maintained with floor polish.
Contact the polish manufacturer for slip resistance qualities of the floor polish to be used.
Test reports and additional product information are available upon request.
FIRE PERFORMANCE
- Flooring Radiant Panel Test (ASTM E648) - ≥ 1.0 critical radiant flux
- Smoke Density Test (ASTM E662) - Less than 450

**5. Installation**
PREPARATORY WORK
Refer to the latest edition of the Azrock Installation and Maintenance manual for complete information. Handle and store product according to Azrock recommendations.

Maintain minimum air temperature of 65 degrees F (18 degrees C) at flooring installation area for a minimum 2 days prior to, during and for minimum 24 hours after installation of flooring tile. Store flooring materials in area of application and allow 2 days for material to reach the ambient temperature of the installation area.

Construct concrete floors in accordance with the American Concrete Institute (ACI) 302 1 R-96 Guide for Concrete Floor anc Slab Construction. Floors must be finished and cured according to ACI with a minimum compressive strength of 3500 psi (24 Mpa).

Floors must be dry, clean and smooth. Any surface materials such as paint, wax, grease, oil, adhesive residues, etc., must be removed. Floors must be free of any sealers, curing hardening or parting compounds that would adversely affect the adhesive used with the flooring. Installation of a moisture barrier, such as 1/8" (3.2mm) Sealtight®, manufactured by W.R. Meadows Inc., or similar product, is recommended prior to placement of on-grade or below-grade slabs. Moisture vapor transmission must not exceed 5 lb/1000 square ft/24 hours when tested according to ASTM F1869 (Anyhdrous Calcium Chloride Test). Surface pH of concrete slabs should be no greater than 9. As a general rule, a 4" (102 mm) thick slab will require a 3 month drying time before moisture tests are performed.

METHODS
Wood floors must be double construction with a minimum thickness of 1" (25.4mm). The top layer of wood should be American Plywood Association (APA) Underlayment Grade Plywood or other underlayment panel approved and warranted for use beneath resilient flooring.

Adhere flooring with Tarkett 100 Clear Thin Spread Adhesive. Apply adhesive with a notched trowel with notches 1/32" deep x 1/16" wide x 1/32" apart.
Slip Resistant Tile installed in areas subject to temperature extremes and/or topical moisture should be installed with Tarkett 940 Polyurethane adhesive.

PRECAUTIONS
Gypsum type patching compounds and underlayments are not recommended. Tarkett will not accept responsibility for flooring failures related to the use of gypsum type patching compounds and underlayments.

**6. Availability & Cost**
AVAILABILITY
These products are marketed throughout the United States, Canada and many foreign countries. Contact manufacturer for information on local availability.

COST
Approximate installed cost per square ft (US $):
- Cortina SD- $5.45-$6.30
- Cortina Colors- $1.20-$1.80 (1/8" gauge); $1.15-$1.60 (3/32" gauge)
- Cortina Complement- $1.20-$1.80
- Granite- $1.60-$2.25
- Granite SR- $2.40-$3.15
- Thru-Quartz- $1.60-$2.25
- Solids- $2.20-$3.00
- CortinaStone- $1.80-$2.35
- Plaza Marble- $3.50-$4.00
- Stone Glow- $2.75-3.25

Variations may result from competitive bidding depending on local labor costs, job conditions, extent of floor preparation, etc. Budget installed cost information may be obtained from a local Azrock distributor or from the manufacturer.

**7. Warranty**
Azrock VCT is warranted to be free of manufacturing defects for 5 years from installation. Refer to Azrock Commercial Products Limited Warranty.

**8. Maintenance**
One of the main reasons for the popularity of Azrock VCT is the minimal effort required to keep the tiles clean and attractive. A new tile floor should not be washed until it has become tightly adhered to the subfloor. This will generally take a week or longer, depending on room temperature and the temperature of the subfloor. In the meantime, sweep or vacuum the flooring to remove loose grit or debris and wipe clean with a damp mop. Spots of adhesive can be removed with a clean, white cloth dampened with mineral spirits. Use caution when handling flammable solvents.

Note- Stop dirt in the doorway. By doing so, time, work and money are saved. The use of non-staining walk-off mats at all heavy traffic entrances is recommended. Mats should wipe dirt and grit from shoes and allow particles to fall beneath the mat surface, preventing accumulated dirt from being tracked into the building. Frequency of maintenance will always vary depending on the traffic and use. Do not use abrasive cleaners. Use Tarkett Commercial maintenance products or their equivalent.

Initial Cleanup/Daily Care
Sweep or vacuum to remove loose dirt. Allow treated mops to dry overnight before reusing. Wash floor with a neutral floor cleaner. If the floor was subjected to excess dirt and heavy traffic before initial mainenance., use a wax stripping solution to clean floor. Use a standard scrubbing machine or an automatic scrubber with a red polyester scrubbing pad. Rinse the floor with clean water and wet vacuum or mop dry. The floor must be thoroughly rinsed to remove all detergent.

Surface Treatment
Apply 3-5 coats of good quality, acrylic floor polish. The use of a sealer prior to application of floor polish is optional. Floor polishes should be applied and maintained according to the instructions of the manufacturer.

Slip Resistant Tile is maintained with application of floor polish and scrubbing procedures involving bristle brushes.

Spot Removal
Spills and spots should be cleaned up while still fresh. Use a red polyester pad moistened with detergent.

Precautions
Do not use acetone or similar materials to clean floors. Furniture rests, cart wheels and tires should be made of soft, nonstaining rubber and should be large enough to fully dissipate the load. Use plywood panels to protect flooring from damage that may occur when moving heavy objects directly over flooring. The use of dolies may not be sufficient protection from heavy loads.

A detailed maintenance manual is available from Tarkett.

**9. Technical Services**

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact the Tarkett Technical Service Department.

**10. Filing Systems**

- Sweet's Catalog Files
- Additional product information is available from the manufacturer upon request.

Marigold School → Admin office floor '07

& Citrus School → Health office '07 Unit C

| Mannington Commercial® Tile | | |
|---|---|---|
| **Specifications** | **Vinyl Composition Tile (VCT)** | **Mannington Assurance™ Modular** |
| Construction | Through Pattern | Slip Resistant Inlaid Tile |
| Thickness, nominal inches (mm) | 0.125 (3.18) | 0.055 (1.40) |
| Overall Thickness, nominal inches (mm) | 0.125 (3.18) | 0.125 (3.18) |
| Package/Count | carton/45 | carton/16 |
| Average weight: lb (kg) per carton lb (kg) per tile | 65 (29.50) 1.43 (0.65) | 34.5 (15.6) 2.05 (0.93) |
| Boxes Per Pallet | 30 | 48 |
| Size, nominal, inches (mm) | 12 x 12 (304.8 x 304.8) | 18 x 18 (457.2 x 457.2) |
| Static load limit F970, psi (kg/cm²) | 125 (8.79) | 750 (49.22) |
| ASTM Specification F-1066 | Class 2 | N/A |
| Federal Specification SS-T-312B (1) | Type IV | N/A |
| ASTM Specification F-1303 | N/A | Type II, Grade I Construction |
| ASTM E-648 critical radiant flux, ≥ 0.45 w/cm² | Class I | Class I |
| ASTM E-662 NBS smoke chamber test, smoke value 450 or less | Yes | Yes |
| Recommended adhesive, type, spread | V-11, clear thin set, 250-300 sq ft/gal | MT-711 or V-85, Full |