



**LAKE COUNTY AIR QUALITY
MANAGEMENT DISTRICT**
885 Lakeport Boulevard
Lakeport, CA 95453
Phone: (707) 263-7000 / Fax: (707) 263-0421

Douglas G. Gearhart
Air Pollution Control Officer

SERPENTINE DUST CONTROL PLAN

Submitted By: _____ Date: _____

Address: _____ City/State: _____ / _____

Phone #: _____ Fax #: _____ Pager/Cell #: _____

Property Owner: _____

Owner Address: _____ City/State: _____

Owner Phone: _____

Job Location: _____

Contractor Name: _____

Mail Address: _____ City/State: _____ / _____

Phone #: _____ Fax #: _____ Pager/Cell #: _____

Project Description: _____

(Attach map and grading plan)

Amount of off site disposal: _____ yd³

Disposal Location: _____

Name of property owner at location: _____

Mailing address of property owner: _____

City/State: _____ / _____

Phone #: _____ Fax #: _____

Serpentine Material Supply Notice Required? Yes No (Attach Copy)

Serpentine Dust Control Plan

All work performed in serpentine containing greater than 1% asbestos shall utilize adequate control measures to prevent visible dust at all times.

The following items will be implemented to control dust during work in regulated serpentine. Check all boxes that are planned to be implemented. Items marked with (*) are mandatory minimum requirements.

- 1. Pre-wet work area and immediately follow with fine spray application preferably on the immediate area being worked to eliminate visible dust to the extent possible.
- 2.* Perform work during wet season, when possible, during light rainfall
- 3.* Limit vehicle access to exposed serpentine surfaces with effective barrier(s). Describe type of barrier: _____
- 4.* Asbestos Hazard Notice Posting. Conspicuously post and maintain notice at entry to regulated area. Size not less than 12" x 18". Danger - Asbestos Dust Hazard, Cancer and Lung Disease Hazard, Authorized Personnel Only.
- 5.* Vehicle speed limit on exposed serpentine to reduce fiber releases.
Posted Speed Limit: 5 mph 10 mph Other: _____
- 6.* Cover serpentine surfaces exposed to vehicle travel with non-asbestos cover material. Describe cover material and depth of coverage: _____

- 7. Exposed Surface Stabilization: Maintain a high moisture condition of the disturbed surface or apply a "binder" material to seal loose fibers together and to the parent rock particle. Dust palliatives such as lignin sulfonate, magnesium chloride, pitch, rosin and polymer emulsions can be effectively utilized in a variety of applications. Describe Stabilization Method(s): _____

- 8.* Material transfers or stockpiles of loose material should be kept adequately wet, sealed by a palliative or covered where conditions warrant.
- 9.* Material transfer requirements: Material must be wet. Transfers more than 1 mile must be tarped.
- 10.* Provide employee notification of potential health risk of airborne asbestos and the requirements of the asbestos dust mitigation plan. A copy of the notification, signed by the on site workers is to be provided to the District upon request.
- 11. Worker safety precautions and exposure monitoring should be considered but is not specifically required by District regulation. Other agency regulations (OSHA) are applicable. Results of worker monitoring tests are to be provided the District upon request.
- 12.* Site Access: Establish and maintain a minimum of 75 feet of track-out prevention surfacing at the entrance to the location. Materials tracked onto the public road shall be removed, as necessary, to prevent visible emissions.
- 13.* Avoid working when sustained wind speeds are greater than 10 mph unless adequate dust control can be maintained.

Plan Fee: \$81.45

Make check payable to the Lake County AQMD, and submitted along with the notification.

I hereby acknowledge that I understand the requirements of the Lake County Air Quality Management District Serpentine Dust Control Regulation and will comply with the rule by implementing this control plan.

_____ Date: _____
Responsible Individual Name

=====

District Use Only

Plan submittal fee: \$81.45 Received: _____ Date: _____

By: _____ Receipt No. _____

Review By: _____ Review Date: _____

Approved By: _____ Approval Date: _____

Approved With Revisions: yes / no (Attach Revised Approval Letter)

**DANGER
ASBESTOS DUST
HAZARD**

**CANCER AND
LUNG DISEASE HAZARD**

**AUTHORIZED
PERSONNEL
ONLY**

**Contact Name: _____
Phone #: _____**

Minimum Sign Size 12" x 18"

Worker / Visitor - Asbestos Hazard Notification

This project is located on or near serpentine rock or soils. Regulated amounts of Asbestos are common in the serpentine areas of Lake County. This project is being constructed in compliance with the attached Serpentine Dust Control Plan. Dust control for this project is regulated by the Lake County Air Quality Management District. All workers will read and follow the requirements of the attached plan and certify their receipt of asbestos hazard training and understanding of the dust control measures to be utilized by signature.

The material on this site is known or presumed to contain asbestos in a concentration of greater than 1%. The release and breathing of asbestos fibers can be a health hazard to both the site workers and neighboring residents. It is important that asbestos fibers not be released to the air or carried off-site on clothing or vehicles and cause off site exposures.

The Primary Asbestos Diseases

Asbestosis - This disease occurs when asbestos fibers irritate and scar the air sacs in the lungs. This restricts the ability to transfer oxygen to the blood and results in breathing and heart problems. There is no treatment for asbestosis.

Mesothelioma - This disease is a cancer of the lining of the chest (pleural cavity) or abdominal cavity and is always fatal. Asbestos exposure is the only known cause of mesothelioma.

Cancers of the lung, stomach or colon - Those types of cancers may result from asbestos exposure. They have varying prognoses. Most asbestos related disease have long latency periods. Symptoms may not appear for five to forty years.

Asbestos exposure and smoking are particularly dangerous. The risk of developing lung cancer is more than ninety times as great for people that smoke and are exposed to asbestos.

I have read and understand the asbestos hazard notice and the requirements of the serpentine dust control plan.

Name _____ Signature _____ Date _____

Safety Tips:

- 1) Asbestos causes problems primarily through the breathing of small fibers in the dust.
- 2) Asbestos fibers can be released by disturbing serpentine surfaces during digging, grading and traffic use.
- 3) Adequate watering, dust control treatments or the covering exposed serpentine surfaces can limit the release of asbestos fibers to the air.

Maintaining a clean work-site and following the serpentine dust control plan should minimize your exposure to asbestos fibers. **Report any observed problems to you supervisor immediately.** We can't change the fact that asbestos is present at this location, but we can effectively manage the hazards. **If you are not sure what to do, ASK!**

Receipt Notice of Serpentine Material Supply

District Permit # _____

Any person who sells, supplies, or offers for sale serpentine material within the District, shall obtain a valid District Permit.

Name of Person Supplying Serpentine: _____

Mail Address of Supplier: _____

Notice/Supply Date: _____ / _____

Location Address of Serpentine Origin: _____

Amount of Serpentine Supplied: _____ (cubic yards or weight)

Serpentine Material Use: () Non-Surfacing () Surfacing

If used for surfacing, the supplier certifies that the material has been tested in accordance with Section 93106 California Code of Regulations and has been found to contain less than 0.25% asbestos.

Notice/Supplier: Name/Signature _____ / _____

WARNING

Serpentine material may contain Asbestos. Asbestos is known to cause cancer. Extreme care should be taken when handling this material to minimize the generation of dust.

It is unlawful to use serpentine material for surfacing or any application in which it would remain exposed and subject to possible disturbance unless the material has been tested and found to contain less than or equal to one quarter percent (0.25%) asbestos. All test for asbestos content must use California Air Resources Board Test Method 435, and a written record documenting the test result(s) must be retained for at least seven years if the material is used for surfacing.

I acknowledge receipt of this notice for the amount and use of the serpentine material shown above. I certify that I have a LCAQMD Approved Serpentine Dust Mitigation Plan on file with the District and will comply with local and state requirements.

Name: _____ Date: _____

Recipient Phone # _____

Recipient Mail Address _____

Location/Address of Serpentine Use: _____

*Received By: _____

****Each person receiving the serpentine material must acknowledge that they have received the above statement.***

Asbestos Inspectors, Consultants, and Laboratories

This listing of persons, firms or service providers should not be considered an endorsement of acknowledgement of the acceptability of the work or services provided. The above list is information only and the user is cautioned to examine the credentials of any contractor, person, firm or service provided prior to entering into a contractual agreement.

** Geologists/Consultants ** CARB Method 435 bulk soils asbestos analysis*

Arturo Casas
Hygeia Laboratories Inc.
82 W. Sierra Madre Blvd.
Sierra Madre, CA 91024-2434
626-355-4711

Environmental Hazards Services
7469 White Pine Rd
Richmond, VA 23237
804-275-4788

J.A. Townsley Co.
400 Tamal Plaza, Suite 404
Corte Madera, CA 94925
415-924-3566

BACE Geotechnical *
761 S. State St.
Ukiah, CA 95482
462-5280

Frank Raviola, Technical Sup. **
Micro Analytical Laboratories, Inc.
5900 Hollis St., Suite M
Emeryville, CA 94608-2008
510-653-0824

James A. Richards **
MACS Lab, Inc.
2070 A Walsh Ave.
Santa Clara, CA. 95050
408-727-9727

Benchmark Property Inspections
206 Walsh Ave., Suite C-2
Santa Clara, CA 95050
408-982-9607

George Rau *
Geotechnical Consultant
Rau & Associates
100 N. Pine
Ukiah, CA 95482
462-6536

Jerrie Waltz
E.R. Adams, Inc.
2370 Rickenbacker Way
Auburn, CA 95603
916 885-8504

Bernadine M. Kolk **
EMS Laboratories, Inc.
117 West Bellevue Dr.
Pasadena, CA 91105-2503
626-568-4065

Greg Arnold *
GeoPacific
4373 Hessel Ct.
Sebastopol, CA 95472
829-8009

Jim Winters
Winzler & Kelly, Engineers
495 Tesconi Circle
P.O. Box 6598
Santa Rosa, CA 95406
523-1010

Chris Kirschenheuter
Bluewater Env. Services Inc.
727 77th Avenue
Oakland, CA 94621
510-638-8384

Gregory J. Reller, R.G.
Geologist
Tetra Tech EM Inc.
10670 White Rock Rd. Suite 100
Rancho Cordova, CA 95670
916-853-4531

Joe Nixt
Systems Abatement
P.O. Box 1207
Anderson, CA 96007
530-945-4215

Clifton J. Kiser
AmeriSci Los Angeles
24416 South Main St., Suite 308
Carson, CA 90745
310-834-4868

Greta Galoustian
Los Angeles Unified School Dist.
BSC Annex
1449 So. San Pedro Street
Los Angeles, CA 90015
213-745-1138

John Walker
E&W Construction
1291 Talmage Rd.
Ukiah, CA 95482
468-1228

David Sandusky **
Forensic Analytical Specialties,
Inc.
3777 Depot Road, Suite 409
Hayward, CA 94545-2761
510-887-8828

H. Bergland
W & E Asbestos Abatement Inc.
1291 Talmage Rd.
Ukiah, CA
463-4812

Ken Anton *
Anton Geological
877-3278

Dick Davis
CalTech Environmental Inc.
727 Azalea St.
Napa, CA 94558
800-273-9992

HazMat Solutions, Inc.
1113 First Street
Novato, CA 94945
415-897-1234

Kevin Smith
KSL
505-1 S. Hwy 49, #101
Jackson, CA 95642
209-286-1822

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** Geologists/Consultants ** CARB Method 435 bulk soils asbestos analysis*

Mark Bailey **
Asbestos TEM Laboratories, Inc.
630 Bancroft Way
Berkeley, CA 94710
510-704-8930

Paul Brophy *
EGS Inc.
725 Farmers Lane, Suite 8
Santa Rosa, CA 95405
707-544-0955

Terrence Bennett, Business
Manager
Precision Micro-Analysis
5685-A Power Inn Rd.
Sacramento, CA 95824
916-381-0695

Marvin Snap *
SI Consulting
#11 Clotilda Ct.
Mill Valley, CA 94941
415-389-5943

Peter Almondinger *
Gemini Petrographic
1516 Grant Ave
Novato, CA 94947
800-655-9016

Terry Sackett
PW Stephens Contractors Inc.
500 Giuseppe Ct., Suite #6
Roseville, CA 95678
916-782-2204

Michael Edwards
Senior Industrial Hygienist
Sensible Solutions
1125-B Arnold Dr., Suite 278
Martinez, CA 94553
925-370-9737

Ralph Curran
2137 Stonfield Lane
Santa Rosa, CA 95403
525-0337

Tommy Conlon
ASBESTECH
6825 Fair Oaks Blvd., Suite 103
Carmichael, CA 95608
916-481-8902

Mike Maladzhikyan
Western Analytical Laboratory,
Inc.
12734 Branford St., Unit #19
Arleta, CA 91331
818-899-0949

Ralph Hagdorn
D. Young Construction
P.O. Box 195
Lucerne, CA 95458
274-2400

Will Davis
Env. Health & Safety Services
422 South Main Street
Lakeport, CA 95453
262-0554

Montgomery Laboratories
555 East Walnut St.
Pasadena, CA 911011
818-796-9141

Richard Bazzano Construction
395 Perkins St.
Ukiah, CA 95482
468-4626

Mr. Juan Hidalgo
RGH Geotechnical &
Environmental Consultants
468 Yolanda Ave., Suite 204
Santa Rosa, CA 95404
544-1072

Sean Fitzgerald **
RJ Lee Group, Inc.
530 McCormick St.
San Leandro, CA 94577
510-567-0480

Neil A. Thomsen *
Engineering Geologist
Thomsen Consulting Engineers
1760 Merritt Rd.
Lakeport, CA 95453
263-8303

Sidhu Harkamaljit **
EMSL Analytical, Inc.
2235 Polvorosa Ave. Suite 230
San Leandro, CA 94577
888-455-3675

Nick Rottunda
SAIL
4224 Campus Pt. Ct., Suite 100
San Diego, CA. 92121
619-535-7418

Steve Wilbur, Lab Supervisor
AccuLab/Environmental Services
3700 Lakeville Hwy
Petaluma, CA 94952
763-8245