



**LAKE COUNTY AIR QUALITY  
MANAGEMENT DISTRICT**

2617 South Main Street  
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: \_\_\_\_\_

Highland Farms, LP plans to developing parcels APN 007-006-34,35, and 40 for Cannibus cultivation in accordance UP-2096. Improvements to the existing driveway from Highland Springs Road is proposed, and which traverses a number of parcels to reach the project site. The initial approximately 500 linear feet of existing road is mapped on Lake County GIS AQMD layer (though not the SSURGO layer) as having potential for Serpentine Soil. The portion of the existing driveway that is mapped is within parcel 007-043-01 (the parcel containing Highland Spring Reservoir. The remaining portion of the driveway and the site improvement area are outside of the mapped areas. The proposed improvements within the potential mapped serpentine soil area includes: Improving road as needed to meet Public Resources Code (PRC) 4290

(Attach map and grading plan)

Amount of off site disposal: \_\_\_\_\_ yd<sup>3</sup>

Disposal Location: \_\_\_\_\_

This section will be either party owner at location: \_\_\_\_\_  
Highland farms, or the is of property owner: \_\_\_\_\_  
County.

City/State: \_\_\_\_\_ / \_\_\_\_\_

Form on page 6 will be needed if we transfer soil off of the property. 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:  
Class 2 aggregate base, sub base, or select fill - 3" min to cover serpentine. All \_\_\_\_\_  
surfacing material must have less than 0.25% asbestos. \_\_\_\_\_
- ☐ 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): \_\_\_\_\_  
Moisture conditioning of disturbed surfaces during active earthwork and roadway areas to be covered with non-asbestos surfacing material as soon as practical.
- ☐ 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.

Fee: Contact the LCAQMD @ 707-263-7000 for the current fee schedule. Make check payable to the Lake County AQMD, and submit 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

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District Use Only

Plan submittal fee: 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!**

This will need to be  
filled out if we transfer  
soil, or offhaul.

## 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*

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

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

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

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

---

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## ***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*

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Ken Anton \*

Anton Geological

877-3278

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HazMat Solutions, Inc.

1113 First Street

Novato, CA 94945

415-897-1234

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Tommy Conlon

ASBESTECH

6825 Fair Oaks Blvd., Suite 103

Carmichael, CA 95608

916-481-8902

---

Ralph Curran \*

2137 Stonfield Lane

Santa Rosa, CA 95403

525-0337

---

Sidhu Harkamaljit \*\*

EMSL Analytical, Inc.

2235 Polvorosa Ave. Suite 230

San Leandro, CA 94577

888-455-3675

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Paul Brophy \*

EGS Inc.

725 Farmers Lane, Suite 8

Santa Rosa, CA 95405

707-544-0955

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Gregory J. Reller, R.G. \*

Geologist

Tetra Tech EM Inc.

10670 White Rock Rd. Suite 100

Rancho Cordova, CA 95670

916-853-4531

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Mike Maladzhikyan

Western Analytical Laboratory, Inc.

12734 Branford St., Unit #19

Arleta, CA 91331

818-899-0949

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Burt Olhiser, Principal \*

Vantage Point Consulting

P.O. Box 1112

Middletown, CA 95461

987-1977

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Sean Fitzgerald \*\*

RJ Lee Group, Inc.

530 McCormick St.

San Leandro, CA 94577

510-567-0480

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Greta Galoustian

Los Angeles Unified School Dist.

BSC Annex

1449 So. San Pedro Street

Los Angeles, CA 90015

213-745-1138

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Keith Westlake, Owner

Westlake Environmental Contractors

PO Box 3950

Clearlake, CA 95422

707-291-9115

---

Marvin Snap \*

SI Consulting

#11 Clotilda Ct.

Mill Valley, CA 94941

415-389-5943

---

Kevin Smith

KSL

505-1 S. Hwy 49, #101

Jackson, CA 95642

209-286-1822

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Will Davis

Env. Health & Safety Services

422 South Main Street

Lakeport, CA 95453

262-0554

---

Arturo Casas

Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd.

Sierra Madre, CA 91024-2434

626-355-4711

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Benchmark Property Inspections

206 Walsh Ave., Suite C-2

Santa Clara, CA 95050

408-982-9607

---

Bernadine M. Kolk \*\*

EMS Laboratories, Inc.

117 West Bellevue Dr.

Pasadena, CA 91105-2503

626-568-4065

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Joe Nixt

Systems Abatement

P.O. Box 1207

Anderson, CA 96007

530-945-4215

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Clifton J. Kiser

AmeriSci Los Angeles

24416 South Main St., Suite 308

Carson, CA 90745

310-834-4868