



Naturally Occurring Asbestos at Schools

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Overview of DTSC Presentation

- Geologic Occurrence of NOA
- Role of DTSC's Schools Division
 - Goal, Status of investigation and mitigation
 - Current NOA Issues
- Interim Guidance – NOA at School Sites (revised 9/24/04)
- Draft Operations & Maintenance Plan Template for NOA Response Actions at Schools (issued 10/11/05)
- School Sites with NOA

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Role of Department of Toxic Substances Control at Schools

- Under Education Code, DTSC identifies environmental contaminants prior to school construction or expansion financed by state bonds
- DTSC oversees environmental assessments and response actions at prospective, expanding, and existing school sites
- DTSC evaluates environmental health risks, protects children and adults from exposure to hazardous materials

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Role of DTSC at School Sites with Naturally Occurring Asbestos

- DTSC requires identification and investigation of NOA:
 - A) serpentine (chrysotile mineral)
 - B) amphibole (actinolite, amosite, anthophyllite, crocidolite, tremolite minerals)
- Mitigation (barriers to prevent or reduce exposures)
- Monitoring for long-term protection
- Long-term maintenance of engineering and administrative controls

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DTSC Goals for School Sites with NOA

- Reduce exposure to NOA from schoolsite soils
- Follow reasonable and consistent protocol for investigation and mitigation
- Be cost-effective and time-efficient in structuring investigation and mitigation
- Develop innovative approaches and guidance to address evolving issues and technologies

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Status of DTSC Investigations of School Sites with NOA

- DTSC oversight and evaluation of 1,613 Schools in 477 districts since 2000
- 21 Schools investigated for NOA in the following counties:
 - Sacramento; El Dorado; Calaveras; Placer; Monterey; Santa Clara; Lake
- 6 Schools identified as requiring Further Action (mitigation and O&M)

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NOA at Schools – New Guidance

- DTSC’s “Interim Guidance – Naturally Occurring Asbestos (NOA) at School Sites”, revised 9/24/04
- DTSC’s “Draft Operations and Maintenance Plan Template for Naturally Occurring Asbestos Response Actions at Schools, released 10/11/05

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Schools Near NOA Formations

- USEPA Grant – DTSC mapping study of high population growth areas near NOA formations
- Overlaid database of existing schools with maps of NOA formations
- Developed listing of 2,100 existing schools located within ten miles of NOA formations

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Current NOA Issues

- Regional NOA air quality issues; offsite sources
- Lack of standards for NOA soil and air sampling
- Inconsistent protocols for laboratory preparation, analysis, and QA/QC for NOA
- Lack of established way to predict exposures from NOA in soils
- Balancing high costs of mitigation against potential future health risks

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For More Information

- Website:
www.dtsc.ca.gov/SiteCleanup/Schools/Schools.html
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