

Publications List

Department of Toxic Substances Control

California Environmental Protection Agency

Science, Pollution Prevention and Technology Program

Office of Pollution Prevention and Technology Development

Technology Clearinghouse

July 2003



The Office of Pollution Prevention and Technology Development (OPPTD) within the Department of Toxic Substances Control (DTSC) provides this Publications List. The Pollution Prevention Program supplies information on how to implement alternatives to the generation of hazardous pollutants (pollution prevention). The Technology Certification Program evaluates and certifies the performance of environmental technologies. All reports, CDs, and videos are available at no cost. Please contact OPPTD prior to requesting multiple copies of documents and videos to ensure there is adequate stock on hand. Some documents are available on our website (<http://www.dtsc.ca.gov/PollutionPrevention/index.html>). Reference copies are located at select California Repository Libraries. Thank you for your interest in improving our environment. We hope this information will be useful.



**HAZARDOUS WASTE
SOURCE REDUCTION &
MANAGEMENT REVIEW
ACT OF 1989**

The preferred approach to waste minimization is source reduction. Source reduction is any activity that prevents or reduces the generation of hazardous waste. Source reduction does not include reducing the volume or toxicity after the hazardous waste is generated.

Doc. No.	Title
003 Updated	<p>Summary Progress Report for Complying with the Hazardous Waste Source Reduction and Management Review Act of 1989 (2002, 7 pp.)</p> <p>SB 14 generators, including small businesses, are required to submit the Summary Progress Report to DTSC by September 1, 2003. This document contains the appropriate forms and detailed instructions on how to prepare the Summary Progress Report.</p> <p>—website: http://www.dtsc.ca.gov/PollutionPrevention/index.html</p>
004 Updated	<p>Compliance Checklist for Complying with the Hazardous Waste Source Reduction and Management Review Act of 1989 (2002, 22 pp.)</p> <p>The revised Compliance Checklist serves as a substitute format for the Source Reduction Evaluation Review and Plan. It also contains the Summary Progress Report. The Compliance Checklist can be used by small businesses only.</p> <p>—website: http://www.dtsc.ca.gov/PollutionPrevention/index.html</p>

Doc. No.	Title
001 Updated	<p>Guidance Manual for Complying with the Hazardous Waste Source Reduction & Management Review Act of 1989 (2002, 116 pp.)</p> <p>SB 14 requires generators to examine current hazardous waste generating processes for hazardous waste minimization opportunities and create a plan to implement workable alternatives. Generators of hazardous waste in excess of amounts specified in SB 14 must prepare a Source Reduction Evaluation Review and Plan, a Hazardous Waste Management Performance Report, and a Summary Progress Report according to a fixed time schedule. —website: http://www.dtsc.ca.gov/PollutionPrevention/index.html</p>

Doc. No.	Title
006	<p>Pollution Prevention Planning - A Citizen's Guide to Hazardous Waste Source Reduction (1997, 1 pp.)</p> <p>The Citizen's Guide explains the purposes and requirements of SB 14 to the public. The guide explains the term "source reduction" and discusses what information SB 14 regulated businesses must provide in the Source Reduction Plan and Management Performance Report documents. The guide also discusses the provision in the California Code of Regulations, Section 67100.3(b), which requires businesses to make their SB 14 documents available locally for public review.</p>

WASTE MINIMIZATION FACT SHEETS
 A summary of waste minimization methods for specific industries.

Doc. No.	Title
200	<p>Pollution Prevention Can Work For You (1997, 6 pp.)</p> <p>A summary of general hazardous waste minimization definitions and techniques for businesses.</p>
202 NEW	<p>Automotive Paint Shops (2002, 5 pp.)</p>
204	<p>Building Construction (1993, 4 pp.)</p>
211	<p>Research and Educational Institutions (1993, 4 pp.)</p>
212	<p>Ceramic Products (1993, 4 pp.)</p>
213	<p>Drug Manufacturing and Processing (1994, 6 pp.)</p>
216	<p>Paint Manufacturers Can Save Money on Environmental Compliance Costs (1996, 4 pp.)</p>

Doc. No.	Title
217	<p>How To Select and Use Safe Janitorial Chemicals (1999, 19 pp.)</p> <p>This compilation of fact sheets provides important information on safer janitorial chemicals and products for commercial buildings' toilet care, carpet care, rest room cleaning, etc. It highlights important safety tips, pollution prevention techniques, monitoring, and workers' training. All could result in reducing pollution while enhancing workers' safety</p>

WASTE AUDIT STUDIES
 Full-scale assessments of specific industries that show where waste minimization methods can be most effective.

Doc. No.	Title
315	<p>Photo processing Industry (1995, 267 pp.)</p>

HAZARDOUS WASTE MINIMIZATION CHECKLIST AND ASSESSMENT MANUALS
 Manuals developed to aid manufacturers in evaluating their shops for waste minimization opportunities.

Doc. No.	Title
402	<p>Metal Finishing Industry (1993, 143 pp.)</p>
405	<p>Electronics Industry (1996, 76 pp.)</p>
409	<p>Marine Ship and Pleasure Vessel Boat Yards (1993, 30 pp.)</p>
410 NEW	<p>Jewelry Manufacturing Pollution Prevention Recommendations (2002, 11 pp.)</p> <p>Pollution Prevention Recommendations for the Jewelry Manufacturing Industry. Covers lost wax casting techniques, cyanide bombing, stripping, polishing, soldering, and chemical storage. Fact sheet is also available in Armenian, Spanish, and Vietnamese.</p> <p>-website: http://www.dtsc.ca.gov/PublicationsForms/HWM_FS_Jewelry_P2_Recommendations.pdf</p>

Doc. No.	Title
411	Commercial Printing Industry (1994, 54 pp.)
413	Pollution Prevention Guide for Hospitals (1998, 148 pp.)

BIENNIAL REPORTS TO THE CALIFORNIA STATE LEGISLATURE

Doc. No.	Title
540	Pollution Prevention Accomplishments (1999, 41 pp.) Reports the significant accomplishments and activities of OPPTD between January 1996 and December 1998.
541	Pollution Prevention Report and 2-Year Workplan (2000, 173 pp.) Summarizes DTSC's activities per SB 1916 of 1998. Includes information about the trends in hazardous waste generation, the status of hazardous waste generation in 1998, the 2-year pollution prevention workplan developed with the guidance of DTSC's Pollution Prevention Advisory Committee, information about economic and financial incentives for pollution prevention, a description of DTSC research projects, and a list of Advisory Committee recommendations and issues for further discussion. The appendices include agendas and minutes from Advisory Committee meetings.
543 NEW	2002 Pollution Prevention Report and 2-Year Workplan (2002, 145 pp) Summarizes DTSC's activities per SB 1916 of 1998. Includes information about the trends and status of hazardous waste generation. The 2-year pollution prevention workplan was developed with the guidance of DTSC's Pollution Prevention Advisory Committee.

LOCAL GOVERNMENT

Doc. No.	Title
527	Marketing Pollution Prevention 101: A Simple Guide for Local Governments (1993, 43 pp.) Provides ideas to assist local agencies in getting industry more actively involved in pollution prevention programs. The guide has been developed by using information and case studies from various local agencies and consulting basic marketing techniques.

WASTE MINIMIZATION ASSESSMENTS OF SPECIFIC FACILITIES

Doc. No.	Title
528	Assessment of the Aerospace Industry Facility Planning Efforts (1993, 100 pp.) Presents the results of the DTSC's assessment of the aerospace industry's source reduction review and planning effort as mandated under SB 14. The report discusses the review of about 90 facility summaries and 22 plans and reports.
529	Assessment of the Petroleum Industry Facility Planning Efforts (1993, 70 pp.) Presents the results of DTSC's assessment of the petroleum industry's source reduction review and planning effort mandated by SB 14. The report discusses the source reduction review of approximately 18 petroleum industry facilities.

Doc. No.	Title	Doc. No.	Title
530	<p>Assessment of the Semiconductor Industry Source Reduction Planning Efforts (1994, 85 pp.) Presents the results of DTSC's assessment of the semiconductor industry's source reduction review and planning effort as mandated under SB 14.</p>	536	<p>Assessment of the Petroleum Industry Hazardous Waste Source Reduction Planning Efforts (1997, 91 pp.) This second assessment highlights several successful source reduction measures leading to significant reductions of hazardous waste generations, offers an interesting comparison of 1990 vs. 1994 source reduction progress, and discusses future plans.</p>
531	<p>Assessment of 1,1,1-Trichloroethane Users Source Reduction Efforts (1995, 125 pp.) More than forty different companies representing over thirty different industries submitted source reduction documents with 1,1,1-trichloroethane substitution information. Thirty-five abstracts explain how these companies are making the transition to other cleaners. Document call-in and review conducted under authority of SB 14.</p>	537	<p><u>Assessment of Chemicals and Allied Products Industry Source Reduction Planning Efforts (1998, 106 pp.)</u> Presents findings from DTSC's source reduction planning assessment of 40 facilities classified under seven SIC codes within the Chemicals and Allied Products Industry. This report contains descriptions of each of the 40 companies, discusses compliance issues, and lists source reduction measures for the industry.</p>
532	<p>Assessment of Selected Paints and Allied Product Manufacturers Source Reduction Facility Planning Efforts (1995, 37 pp.) Summarizes the results of DTSC's assessment of the paint manufacturing industry's source reduction and facility planning efforts. DTSC requested and reviewed Plans and Reports from 26 facilities within this SIC Code (2851).</p>	538	<p><u>Assessment of California's Largest Hazardous Waste Generator's Source Reduction Efforts (1998, 65 pp.)</u> Presents DTSC's assessment of some of the largest hazardous waste generators source reduction planning efforts. SB 14 documents from 28 facilities from a wide range of industries were requested and reviewed for this report. Waste generation comparisons were made for the period 1990 to 1994 and beyond. Most facilities reported a decrease in hazardous waste generation.</p>
533	<p><u>Assessment of the Polymers and Resins Industry Hazardous Waste Source Reduction Planning Efforts (1996, 75 pp.)</u> Presents the results of DTSC's assessment of the polymers and resins industry's source reduction review and planning effort as mandated under SB 14. DTSC requested and reviewed Plans and Reports from 31 facilities.</p>	539	<p><u>Source Reduction Technologies in California Printed Circuit Board Manufacture (1999, 30 pp.)</u> Innovative technologies are discussed in this report. Most are commercially available, yet innovative in that they are new or improved technologies that offer economic and/or environmental advantages over conventional technologies.</p>
534	<p>Assessment of the Metal Finishing and Plating Industry Source Reduction Planning Efforts (1996, 62 pp.) Summarizes the results of DTSC's assessment of the metal finishing and plating industry's source reduction efforts as mandated by SB 14. Plans and reports from 75 facilities were reviewed.</p>		

Doc. No.	Title
542	<p>Summary of Information from Senate Bill 14 Call-In's, Selected Printers (2001, 100 pp.) Contains data collected from the 1990, 1994, and 1998 Senate Bill 14 Plans and Reports. Includes quantities of major waste streams, overview of printing processes, and table and description of tested source reduction measures. Over 70 different facility case studies are outlined with cost data and contact information.</p>

Doc. No.	Title
609	<p>Simplified Guide for Evaluating Alternatives to Chlorinated Solvents in Cleaning Applications (1995, 22 pp.) Presents a simplified approach for evaluating alternatives to chlorinated solvents in various cleaning applications. This approach is based on a detailed cross-media analysis of the alternatives in vapor degreasing, cold cleaning, wipe cleaning and printed circuit board defluxing as described in Document Number 608. Written by Dr. Katy Wolf of the Institute of Research and Technical Assistance (IRTA).</p>

WASTE STREAM SPECIFIC INFORMATION

Doc. No.	Title
510	<p>No-Waste Lab Manual for Educational Institutions (1991, 115 pp.) A laboratory manual for introductory chemistry courses incorporating procedures that produce little or no toxic waste. This is accomplished by the use of consecutive chemical reactions so that the production of one reaction is used as the starting material for the next.</p>
607	<p>Aqueous Alternatives to Solvent Cleaning (1994, 6 pp.) A summary of general information on many of the aqueous alternatives available to replace solvent cleaners.</p>
608	<p>Alternatives to Chlorinated Solvents in Cleaning Applications (1994, 132 pp.) Discusses the chemical and process alternatives to chlorinated solvents in vapor degreasing, cold cleaning, printed circuit board defluxing and handwipe operations. The report also summarizes the air, water, and waste regulations that apply to alternatives. Detailed case studies demonstrate the issues that firms must consider when they are selecting an alternative.</p>

610	<p>Compliance Assistance PCB Self-Inspection Checklist for PCB Waste Generators (1999, 8 pp.) A checklist designed to approximate one that an inspector might use while examining a facility for PCB compliance. Also provides regulatory references to assist in locating further information or regulations concerning specific issues or sections of the checklist. Both federal and California state PCB regulations are discussed.</p>
611	<p>Parts Cleaning Alternatives in Machine Shops (1995, 16 pp.) A guide to assist shop operators in the evaluation and adoption of alternatives to the use of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) and 1,1,1-trichloroethane (TCA) for parts cleaning. These two chlorinated solvents have been banned as of January 1, 1996. The report is also a primer for those interested in pollution prevention strategies for machine shops.</p>
613	<p>Parts Cleaning in Auto Repair Facilities: The Conversion to Water Executive Summary (1997, 4 pp.) Provides a brief overview of the results of a test and demonstration project in Los Angeles, California for water-based cleaning systems in auto repair facilities. Four types of equipment were investigated including a sink-on-a-drum remote reservoir configuration, an immersion system, an enzyme unit and a spray cabinet. Four water-based cleaning formulations were tested: three were alkaline cleaners and one was an enzyme cleaner.</p>

Doc. No.	Title	Doc. No.	Title
614	<p>Parts Cleaning in Auto Repair Facilities: The Conversion to Water (1997, 80 pp.) This report presents the results of the test and demonstration project summarized in Document Number 613. Information contained includes testing for technical feasibility, analysis of results, cost analysis and project findings and implications. Report also contains Material Safety Data Sheets for aqueous cleaning formulations used in the project.</p>	618	<p>Water-Based Parts Washer Systems: Case Study Conversions (1999, 29 pp.) This reports presents the results of case studies in auto repair and industrial facilities using water-based cleaning systems and formulations. Four generic types of equipment and four water-based cleaning formulations were tested at various concentrations. The case studies contain feasibility and cost information as well as ways to optimize use of equipment and cleaners.</p>
615	<p>Appendices to Parts Cleaning in Auto Repair Facilities: The Conversion to Water (1997, 250 pp.) These appendices present the water quality data collected in the test and demonstration project summarized in Document Number 613 and reported in 614. Data printouts include listing of inorganic and organic laboratory results.</p>	619(a)	<p>Switching to Water-Based Cleaners for Automotive Brake Cleaning, (1999, 2 pp.) This two-page brochure provides specific information on water-based cleaning systems, formulations, costs, regulatory concerns and frequently asked questions related to automotive brake cleaning. (Also available in Spanish)</p>
616	<p>Switching to Water-Based Cleaners in Repair and Maintenance Parts Cleaning (1999, 2 pp.) This two-page brochure provides specific information on water-based cleaning systems, formulations, costs, regulatory concerns and frequently asked questions and answers related to repair and maintenance parts cleaning in auto repair shops and other maintenance parts cleaning.</p>	619(b)	<p>Cambiando Al Limpiador A Base De Agua Para La Limpieza De Frenos Automotriz (1999, 2 pp.) Este folleto provee información específica de sistemas de limpiar a base de agua, formulaciones, costos, problemas de regulación y preguntas comunmente hechas relativo a limpieza de frenos automotriz.</p>
617	<p>Water-Based Parts Washer Systems: A Guidance Program for Users (1999, 3 pp.) This document presents detailed information on water-based cleaning systems and formulations used widely in auto repair facilities as a replacement for mineral spirits cleaning systems. Document analyzes state and federal hazardous waste regulations that affect the transition from mineral spirits to water-based cleaning.</p>	620	<p>Brake Cleaning in Automotive Repair Facilities: The Conversion to Water (1999, 113 pp.) This document presents detailed information on water-based cleaning systems and formulations used widely for automotive brake cleaning as a replacement for perchloroethylene (PERC). Document analyzes state and federal hazardous waste regulations that affect the transition from PERC to water-based cleaning.</p>

Doc. No.	Title	Doc. No.	Title
621	<p>Seven (7) Case Studies: The Conversion to Water-Based Cleaners for Automotive Brake Cleaning in Los Angeles (1999, 7 pp.) (English and Spanish) This collection of seven, one-page case studies presents a thumbnail sketch of water-based cleaning systems and formulations used in seven shops in the Los Angeles area. Equipment, cleaner, and disposal costs for aerosol brake versus water-based brake cleaning systems are compared. Side one in English with flip side in Spanish.</p>	625(a) UPDATED	<p><u>Best Environmental Practices for Fleet Maintenance (2002, 30 pp.)</u> (Also available in Spanish) The Tool Kit contains a series of fact sheets demonstrating pollution prevention methods in the vehicle fleet maintenance industry. The fact sheets focus on typical activities in the fleet maintenance shop, and introduce alternative methods that will reduce the amount of hazardous wastes generated, reduce operational costs, and increase fleet operator's ability to comply with environmental regulations. These alternative methods include aqueous cleaning technologies for vehicle parts and brakes, antifreeze recycling, use of refillable spray bottles, oil life extension, use of reusable oil filters, bypass oil filtration, re-refined oil, dry floor cleaning methods, and oil-water separator maintenance. The fact sheets include cost comparison spreadsheets, diagrams, fleet operations case studies, and vendor resources. Video 1503(a) is a companion to the toolkit.</p>
622	<p>How To Select and Use Safe Janitorial Chemicals (1999, 86 pp.) This comprehensive report provides information on opportunities to achieve pollution prevention by changing janitorial products with highly toxic ingredients to ones that are less hazardous. The report highlights a variety of interesting data and detailed discussion on the results derived from experiments conducted at many sites in the state of California.</p>	625(b) NEW	<p><u>La Caja de Herramientas De La Prevención De La Contaminación: Las Mejores Prácticas Ambientales para Mantenimiento de Flotillas Vehiculares (2002, 30 pp.)</u> La Caja de Herramienta contiene una serie de Hoja de Hechos demostrando métodos para la prevención de la contaminación en la industria del mantenimiento de flotillas de vehículos. Las Hojas de Hechos enfocan en las actividades típicos de los talleres de mantenimiento de flotillas de vehículos y introduce métodos alternativos que reduzca la cantidad de residuos peligrosos generado, reduzca los costos de las operaciones, y aumenta la capacidad de los operadores de las flotillas a cumplir con las reglas ambientales. Estos métodos alternativos incluyen las tecnologías de limpieza acuosas para las piezas y los frenos del vehículo, el reciclaje de anticongelante, el uso de las botellas recargables del aerosol, los métodos de limpieza secos del piso, y el mantenimiento del separador del aceite-agua. La Caja de Herramienta incluye las hojas de balance de la comparación de costes, los diagramas, los estudios de caso de talleres reales, y recursos del vendedor. Hay un vídeo que es compañero para la caja de herramienta, ve el documento numero 1503(b).</p>
623	<p><u>Mercury in the Environment (2001, trifold with 6 inserts)</u> This colorful brochure gives general information on mercury and proper disposal of the following: Gauges - Manometers, Barometers and Vacuum Gauges; Mercury Switches and Relays; and Mercury Thermometers; Mercury - Containing Thermostats; Fluorescent and High-Intensity Discharge Lamps; and Mercury-Containing Thermostat Probes.</p>		
624	<p><u>A Guide to Mercury Assessment and Elimination in Healthcare Facilities (2000, 81 pp.)</u> Guide includes case studies of mercury assessments of six hospitals. Costs and availability of mercury free equipment alternatives discussed. Excel spreadsheet with multiplier for applicable hospital mercury containing devices allows the user to calculate the amount of mercury removed from the facility. Document 1507 is also a CD containing this document and other useful hospital pollution prevention tools. http://www.dtsc.ca.gov/PollutionPrevention/guide-to-mercury-assessment-in-healthcare-facilities.pdf</p>		

Doc. No.	Title	Doc. No.	Title
626(a) UPDATED	<p>Pollution Prevention Tool Kit - Best Environmental Practices for Auto Repair (2001, 28 pp.) (Also available in Spanish)</p> <p>The Tool Kit contains a series of fact sheets demonstrating pollution prevention methods in the vehicle service and repair industry. The fact sheets focus on typical activities in the vehicle repair shop, and introduce alternative methods that will reduce the amount of hazardous wastes generated, reduce operational costs, and increase shop operators' ability to comply with environmental regulations. These alternative methods include aqueous cleaning technologies for vehicle parts and brakes, antifreeze recycling, use of refillable spray bottles, dry floor cleaning methods, and oil-water separator maintenance. The Tool Kit includes cost comparison spreadsheets, diagrams, case studies of actual shops, and vendor resources. Video 1504(a) is a companion to the toolkit.</p>	627	<p>Alternatives in Batch Loaded Cold Cleaning: Case Study Conversions (2001, 67 pp.)</p> <p>This report presents detailed case studies of eleven industrial firms in Southern California that have converted from solvents to water-based cleaning systems in batch loaded cold cleaning operations. It also presents information on the types of water-based cleaning systems that can be used as replacements for solvents in these operations.</p>
626(b) NEW	<p>La Caja de Herramientas De La Prevención De La Contaminación: Las Mejores Prácticas Ambientales para Reparación de Autos (2002, 28 pp.)</p> <p>La Caja de Herramienta contiene una serie de Hoja de Hechos demostrando métodos para la prevención de la contaminación en la industria de reparación de autos. Las Hojas de Hechos enfocan en las actividades típicos de los talleres de reparación de autos y introduce métodos alternativos que reduzca la cantidad de residuos peligrosos generado, reduzca los costos de las operaciones, y aumenta la capacidad de los operadores de las flotillas a cumplir con las reglas ambientales. Estos métodos alternativos incluyen las tecnologías de limpieza acuosas para las piezas y los frenos del vehículo, el reciclaje de anticongelante, el uso de las botellas recargables del aerosol, los métodos de limpieza secos del piso, y el mantenimiento del separador del aceite-agua. La Caja de Herramienta incluye las hojas de balance de la comparación de costes, los diagramas, los estudios de caso de talleres reales, y recursos del vendedor. Hay un vídeo que es compañero para la caja de herramienta, ve el documento numero 1504 (b).</p>	628	<p>Eleven (11) Case Studies: The Conversion to Water-Based Cleaning Systems for Solvent Batch Loaded Cold Cleaning (2001, 11 pp.)</p> <p>This collection of eleven, one-page case studies presents a thumbnail sketch of water-based cleaning systems and formulations used in eleven industrials firms that have converted from solvent batch loaded cold cleaning. Equipment, cleaner, labor, electrical/gas, training and disposal costs for water-based cleaning systems versus solvent batch loaded cold cleaning are compared</p>
		631) NEW	<p>Bypass Oil Filters Fact Sheet (2003, 2 pp.)</p> <p>The By-Pass Oil Filer Fact Sheet is being offered separately or in the Fleet Tool Kit. The fact sheet focuses on extending oil change intervals by filtering out particles as small as one micron or less, helping to maintain oil viscosity and additive package at proper levels. Helping to extend engine life and reducing the amount of new oil purchased are only a few of the additive bonuses by implementing by-pass oil Filter.</p>

EXPERIMENTAL TECHNOLOGY
EVALUATION PROGRAM

Doc. No.	Title
632 NEW	<p>Hoja De Hechos De los Filtros De Aceite “Bypass”. (2003, 2pp.) La hoja de hechos de los filtros de aceite “bypass” se está ofreciendo por separado o en la caja de herramientas para flotillas. La hoja de hechos enfoca en extenderse el intervalo del cambio del aceite, por filtrándose las partículas tan pequeñas como un micrón o menos, ayudando a mantener viscosidad del aceite y el paquete del añadidos en los niveles apropiados. El ayudar a extender la vida del motor y la reducción de la cantidad de aceite nuevo comprada, son solamente algunas de las primas ventajas de el filtro de aceite “bypass” cuando implementado.</p>
633 NEW	<p><u>Re-refined Oil Fact Sheet (2003, 2 pp.) (also available in Spanish)</u> The Re-Refined Oil Fact Sheet is being offered separately or in the Fleet Tool Kit. The re-refined oil offers fleets a viable alternative to purchasing virgin oil. Backed by all the vehicle manufactures, re-refined oil saves money and reduces the depletion of natural resources.</p>
634 NEW	<p><u>Hoja de Hechos sobre Aceite Re-Refinado (2003, 2 pp.)</u> La Hoja de Hechos sobre Aceite Re-Refinado se está ofreciendo por separado o en la Caja de Herramientas para Flotillas. El aceite re-refinado ofrece a flotillas una alternativa viable a comprar el aceite virginal. Aceptado por todos los fabricantes del vehículo, el aceite re-refinado ahorra el dinero y reduce el agotamiento de recursos naturales.</p>
650 NEW	<p><u>Online Automotive Repair Pollution Prevention Directory for Automotive Repair and Fleet Maintenance (updated regularly)</u> Provides user who is looking for pollution prevention equipment with information about suppliers, including type of equipment they carry and contact information. User can search by category, key word, or supplier. This directory is only available online. -website: http://www.dtsc.ca.gov/PollutionPrevention/VSR/index.html</p>

Doc. No.	Title
710	<p><u>General Acceptance Criteria and Standards Guidance for the Verification of Environmental Technologies (1998, 10 pp.)</u> This document outlines the data quality acceptance and quality control criteria to be used in the verification of environmental technologies.</p>
712	<p><u>Performance-based Certification of Hazardous Waste Measurement and Monitoring Technologies (1998, 49 pp.)</u> Protocol describes documents and performance data required for the evaluation of measurement and monitoring technologies. Such technologies are used in site characterization, environmental field testing, sampling, sample preparation methods, and analysis by instrumental, chemical and biological methods.</p>
752 NEW	<p><u>Final Technology Evaluation Workplan ABB Inc. BIOTEMP® Vegetable Oil-Based Insulating Dielectric Fluid (2001, 29 pp.)</u> The final technology evaluation plan for the ABB Verification Project describes the technology, evaluation process, analytical methods, and quality assurance/quality control process. The technology is a vegetable oil-based dielectric fluid used in electrical transformers. -website: http://www.epa.gov/etv/pdfs/testplan/06_tp_040901_abb.pdf</p>
753 NEW	<p><u>Environmental Technology Verification Report ABB Inc. BIOTEMP® Vegetable Oil-Based Insulating Dielectric Fluid (2002, 62 pp.)</u> Final report for the ABB Verification Project which describes the technology, evaluation process, and testing methods used. The technology is a vegetable oil-based dielectric fluid which was verified for use in electrical transformers. -website: http://www.epa.gov/etv/pdfs/vrvs/06_vs_abb.pdf</p>

Doc. No.	Title	Doc. No.	Title
754 NEW	<p>Final Technology Evaluation Workplan Cooper Power Systems Envirotemp®FR3™ Vegetable Oil-Based Insulating Dielectric Fluid (2001, 29 pp.)</p> <p>The final technology evaluation plan for the Cooper Verification Project describes the technology, evaluation process, analytical methods, and quality assurance/quality control process. The technology is a vegetable oil-based dielectric fluid used in electrical transformers. -website: http://www.epa.gov/etv/pdfs/testplan/06_tp_071201_cooper.pdf</p>	758 NEW	<p>Environmental Technology Verification Report Hydromatix 786E Ion Exchange Rinsewater Recycling System (2002, 49 pp.)</p> <p>Final Report of the Hydromatix Verification Project describing project design, data collection, and results of testing. The Hydromatix system is used to treat waste waters from metal finishing operations, resulting in a closed-loop, zero-discharge recycling system. -website: http://www.epa.gov/etv/verifications/vcenter6-11.html</p>
755 NEW	<p>Environmental Technology Verification Report Cooper Power System Envirotemp®FR3™ Vegetable Oil-Based Insulating Dielectric Fluid (2002, 65 pp.)</p> <p>The final report for the Cooper Verification Project which describes the technology, evaluation process, and testing methods used. The technology is a vegetable oil-based dielectric fluid which was verified for use in electrical transformers. -website: http://www.epa.gov/etv/pdfs/vrvs/06_vr_cooper.pdf</p>	759 NEW	<p>Lithium Metatungstate (LMT) Verification WorkPlan (2000, 21 pp.)</p> <p>Technology Evaluation WorkPlan for the Lithium Metatungstate (LMT) Verification Project. Workplan describes the objectives of the evaluation, testing design, equipment requirements, and timetable for conducting the study. LMT is used by the coal testing and processing industry as a replacement heavy liquid in ASTM Standard D 4371-98, the Standard Test Method for Determining the Washability Characteristics of Coal. -website: http://www.epa.gov/etv/pdfs/testplan/06_tp_090100_lmt.pdf</p>
756 NEW On-line only	<p>Survey and Initial Evaluation of Small On-site Fluorescent Lamp Crushers (2001, 31 pp.)</p> <p>This report lists the different types of drum-top fluorescent lamp crushers, applicable regulations, potential worker health and safety issues, and recommendations regarding additional testing and operating requirements. -website: http://www.dtsc.ca.gov/ScienceTechnology/OPPTD_FlourescentLampCrushers.pdf</p>	760 NEW	<p>Environmental Technology Verification Report Lithium Metatungstate (LMT) as a Replacement Heavy Liquid in ASTM Standard D 4371-98 (2003, 30 pp.)</p> <p>Final Report of the Lithium Metatungstate (LMT) Verification Project describing project design, data collection, and results of testing. LMT is used by the coal testing and processing industry as a replacement heavy liquid in ASTM Standard D 4371-98, the Standard Test Method for Determining the Washability Characteristics of Coal.</p>
757 NEW	<p>Technology Evaluation Workplan Hydromatix 786E Ion Exchange Rinsewater Recycling System (2000, 23 pp.)</p> <p>Technology Evaluation Workplan for the Hydromatix 786E Ion Exchange Rinsewater Recycling System. Workplan describes the objectives of the evaluation, testing design, equipment requirements, and timetable for conducting the study. The Hydromatix system is used to treat waste waters from metal finishing operations, resulting in a closed-loop, zero-discharge recycling system. -website: http://www.epa.gov/etv/pdfs/testplan/06_tp_110100_hydromatix.pdf</p>	761 NEW	<p>Recertification Report puraDYN Bypass Oil Filtration System (2003, 5pp.)</p> <p>Technical Evaluation Report (Recertification) of the puraDYN Bypass Oil Filtration System describing technology evaluation and certification basis, user data collection, and evaluation. The puraDYN Bypass Oil Filtration system has been certified to extend both oil and engine lives in heavy diesel engines.</p>

ALTERNATIVE TECHNOLOGY

Innovative Alternative Technologies

Doc. No.	Title
1211	<p>Reclamation of Waste Foundry Sands: Fresno Valves and Castings, Inc., Waste Sand Reclamation Project (Technology Brief) (1995, 2 pp.)</p> <p>Describes a project involving the reconditioning and reuse of most of the waste sand.</p>
1212	<p>Alternative Technology Demonstration Project Report - Use of Kerr McGee Chemical Corporation Boiler Fly Ash as a Feedstock in the Manufacturing of Southwestern Portland Cement (1992, 9 pp.)</p> <p>This project determined that the use of Kerr McGee fly ash as an ingredient in the manufacture of Portland Cement resulted in a cement product that effectively stabilized hazardous levels of nickel and vanadium present in the ash ingredient.</p>
1214	<p>Water Based Ink Wastes: Biodegradation Technology (Technology Brief) (1995, 2 pp.)</p> <p>Describes a biologically based electro-mechanical system that uses horse manure as a source of microbes to biodegrade water-based ink wastes.</p>
1216	<p>Pesticide Rinsates: Biodegradation Technology (Technology Brief) (1995, 2 pp.)</p> <p>Describes a biologically based, electro-mechanical system that uses horse manure as a source of microbes to biodegrade pesticide rinsates.</p>

CD'S AND VIDEOS

1501	<p>Why Waste?: Waste Minimization for Today's Businesses (1990, 28 minutes)</p> <p>Defines waste minimization and illustrates waste minimization successes in several different types of businesses. Source reduction and recycling case studies illustrate the environmental and economic benefits of implementing a waste minimization program. Is useful for training sessions and seminars focusing on innovative ways for reducing hazardous waste.</p>
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Doc. No.	Title
1503(a)	<p>Profit Through Prevention - Best Environmental Practices for Fleet Maintenance (1999, 35 minutes)</p> <p>This video is a companion to the Tool Kit (625a), and shows how fleet operators have achieved cost savings and improved environmental compliance by implementing Best Environmental Practices. The video demonstrates step-by-step how to implement these practices and includes several fleet operators and their success stories.</p>
1503(b) NEW	<p>Ganancias por Medio de la Prevención – Las Mejores Practicas Ambientales para la Mantenimiento de Flotillas Vehiculares (1999, 30 minutos).</p> <p>Este vídeo es compañero para la Caja de Herramienta, y demuestra cómo los operadores de talleres de mantenimiento de flotillas de vehicular han alcanzado ahorros de coste y han mejorado conformidad ambiental poniendo las mejores prácticas ambientales en ejecución. El vídeo demuestra gradualmente cómo poner estas prácticas en ejecución e incluye varios operadores de talleres de mantenimiento de flotillas de vehículos y sus historias del éxito.</p>
1504(a)	<p>Profit Through Prevention - Best Environmental Practices for Auto Repair (1999, 30 minutes)</p> <p>This video is a companion to the Tool Kit (626a), and shows how automotive shop operators have achieved cost savings and improved environmental compliance by implementing Best Environmental Practices. The video demonstrates step-by-step how to implement these practices and includes several automotive shop operators and their success stories.</p>
1504(b) NEW	<p>Ganancias por Medio de la Prevención – Las Mejores Practicas Ambientales para la Reparación de Autos (1999, 30 minutos).</p> <p>Este vídeo es compañero para la Caja de Herramienta, y demuestra cómo los operadores de talleres mecánicos han alcanzado ahorros de coste y han mejorado conformidad ambiental poniendo las mejores prácticas ambientales en ejecución. El vídeo demuestra gradualmente cómo poner estas prácticas en ejecución e incluye varios operadores de talleres mecánicos y sus historias del éxito.</p>

Doc. No.	Title
1505 NEW	<p>The Jewelry Maker's Guide to Pollution Prevention and Hazardous Waste Management (2002, 30 minutes) Video showing pollution prevention recommendations for the jewelry manufacturing industry. Highlights jewelry makers using the latest technology to improve worker safety and reduce emissions to the environment. Covers lost wax casting techniques, cyanide bombing, stripping, polishing, soldering, and chemical storage. Video is available in VHS and CD formats. Video also available in Armenian, Spanish, and Vietnamese.</p>

1506 NEW	<p>Preventing Pollution at Your Auto Repair Facility Training Video (2003, 62 min.) Pollution Prevention Vehicle Service and Repair Video Training Workbook (2003, 20 pp.) This training video and associated workbook includes six stand-alone training sessions on pollution prevention practices that can be employed at automotive repair shops and fleet maintenance facilities. Viewers learn about aqueous parts cleaners, aqueous brake washers, refillable spray bottles, spill prevention and floor cleanup, rerefined oil and recycled antifreeze, oil life extension and oil filtration. Pollution Prevention Tool Kits (OPPTD Publication No. 625 and 626) and access to OPPTD technical service representatives are integrated into the training. The training may be used as-is or personalized to meet the needs of any public or private entity adopting the program.</p>
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1507 NEW	<p>CD California Mercury (Hg) Elimination Leadership Program A CD containing tools to guide hospitals in performing their own mercury audit. Hospitals who become mercury-free will receive recognition from DTSC. Other related pollution prevention materials for hospitals are included in the CD.</p>
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POLLUTION PREVENTION CASE STUDIES

Doc. No.	Title
1600	<p>Zero Water Discharge in the Metal Plating Industry Using an Improved Ion Exchange Process (1996, 6 pp.)</p>
1601	<p>Monsanto: The Synergy Between Total Quality and Pollution Prevention (1996, 8 pp.) Source reduction measures implemented at a catalyst manufacturing facility.</p>

FOR FURTHER INFORMATION, VISIT THESE WEBSITES

Other documents and executive summaries are available online through the California Environmental Protection Agency (Cal/EPA) Home Page. Use the following Uniform Resource Locators (URLs) to find the web page for Cal/EPA, DTSC and OPPTD. The Cal/EPA web page has a hypertext link to DTSC. The DTSC web page has a hypertext link to OPPTD. The following are the web page addresses:

Cal/EPA: <http://www.calepa.ca.gov/>

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