

2002 Annual Report



MBP3

Jennifer M. Granholm, Governor
State of Michigan

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Department of Environmental Quality

THE MISSION

The mission of the Michigan Business Pollution Prevention Partnership (MBP3) is the advancement of pollution prevention principles within the business community. Through adopting these principles, MBP3 members can reduce or eliminate hazardous discharges or emissions to our environment. Source reduction is the key to developing sustainable environments; however, reuse and recycling are key ingredients to successful source reduction.

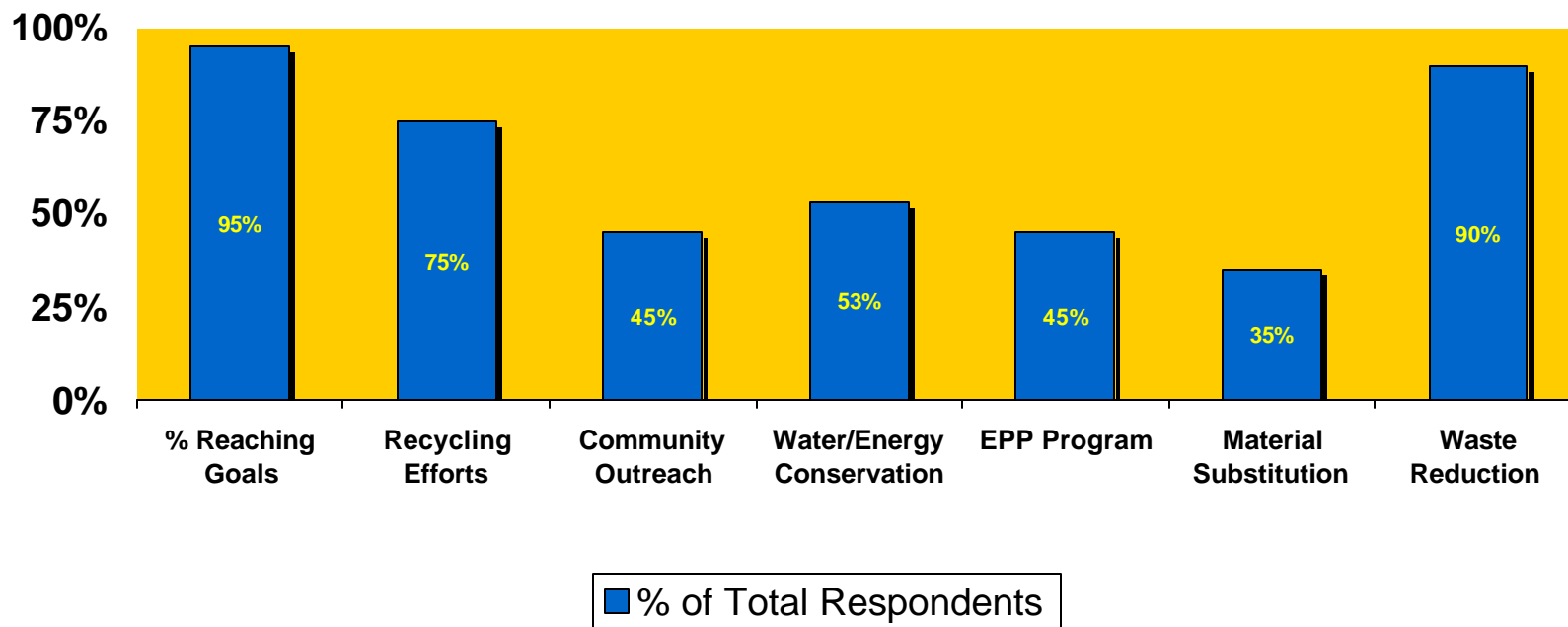
2002 IN REVIEW

Another year as come and gone, what happened in 2002? The partnership enjoyed its best year yet with a total of 44 new partners joining the ranks of pollution prevention and environmental stewardship. Once again, despite economic challenges, the MBP3 continued to grow and expand into new areas and business sectors. The realization that both the environment and the bottom line benefit from pollution prevention activities has taken hold throughout Michigan. At the close of 2002, there were nearly 200 registered MBP3 partners located in 84 different cities and 37 counties. Based on review of accomplishments and successes from MBP3 members, there is a distinct shift in pollution prevention activities in the 3rd and 4th years from aggressive recycling to source reduction. It is through these types of efforts that companies begin to realize the quantities and types of waste that they are generating. These wastes represent lost revenues but also an opportunity for source reduction activities. The ability to monitor and track multiple waste streams has been a direct result of a company's recycling efforts. Without these recycling programs, the facilities would probably not have realized the amount of waste generated and money lost. Major highlights of this past year were the continuation of MBP3 member workshops, increased participation and diversity of membership, and a renewed commitment to environmentally sound business practices which save money and protect our natural resources even in the face of economic hardships.

MBP3 ANNUAL RENEWALS

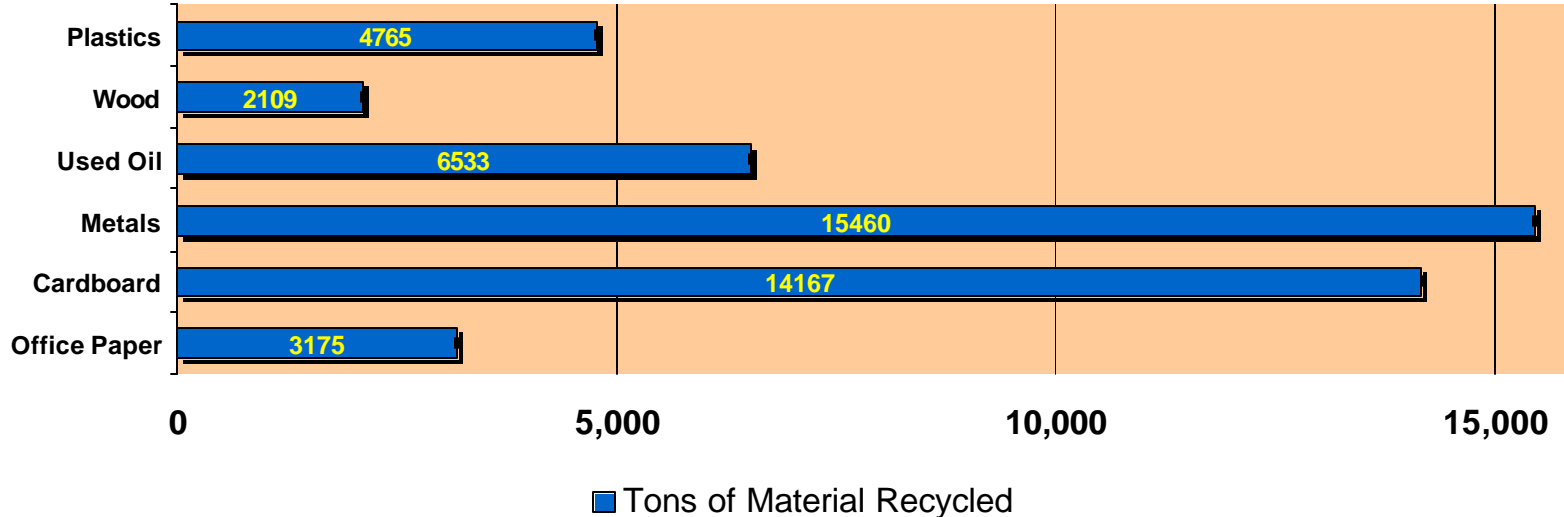
The voluntary goals set by MBP3 are site specific to allow members and the department the flexibility of establishing P2 goals that are the most cost-effective and technically feasible for their individual business, and beneficial to the state. Businesses may elect to choose one or more P2 goals, either quantitative (i.e., 50% reduction in solid waste disposal, eliminate solvent based cleaners) or qualitative (i.e., establishment of an office waste recycling program, provide employee training programs). To further assist partners in formulating their annual P2 goals, MBP3 has developed a goals sheet, which explains what constitutes a P2 goal, and provides a listing of previously submitted member goals.

Based on the 145 MBP3 partners who have submitted their P2 goals for calendar year 2003, 90% focused on reducing or eliminating wastes at the source, 30% are developing innovative ways to reuse waste, and 75% are implementing extensive recycling programs to handle wastes.



2002 ACHIEVEMENTS

Approximately 95% of MBP3 members reached or surpassed their stated goals for 2002. This is an important accomplishment given the voluntary nature of the program and shows that progress is possible without mandates. During 2002 partners reported thirty-eight (38) distinct material/process substitutions, brought about change regarding environmentally preferable purchasing, recycling over 24 distinct materials, and made considerable progress within water and energy conservation programs. The following chart depicts several recycling categories along with totals for the partnership for 2002.



PARTNER HIGHLIGHTS

Access Business Group - the Maintenance department reduced total waste by 7.8%, Central warehouse reduced total waste by 52%, an 11% decrease in Complex total solid waste, a 36% reduction in total hazardous waste costs, and recycled 90 tns of #2 HDPE. Also, implemented a Household Used Oil Collection for its employees and have recycled approximately 1,000 gallons in the first 5 months.

Alpha Plastics Inc. - Reduced plastic scrap to approximately 4 cubic yards annually, recycled 200 yds of cardboard, and recycled 100 gallons used oil.

American Electric Power - Eliminated paint waste through reduction program, recycled 61,370 lbs of batteries, 59,980 lbs of scrap metal, 472,150 lbs of paper, and significant quantities of lighting.

Applied Environmental - Continued recycling program for mixed paper, plastics, glass, metals, paperboard, cardboard, and Styrofoam packaging materials. The promotion of MBP3 is integrated into client discussions regarding pollution prevention and stewardship.

ARVCO Container Corporation - 10% reduction in water consumption, 1.6 tns of office paper reduction, recycling of 100% of lamps, waste oils, electrical components, and paints/solvents.

AutoAlliance International Incorporated - Recycled plastic automotive parts scheduled for landfill due to new model change (13,000 lbs).

Brownrigg Companies, Ltd - Increased use of computer applications that reduce paper usage, increased the usage of non-disposable items in the kitchen, and extensive recycling of all paper waste material.

Baker Furniture - Recycling program includes, wood, corrugated, office paper, magazines, scrap metal, used oil, and upholstery scraps. Eliminated all production uses of chlorinated solvents and currently utilize high volume low-pressure painting technology.

Belle Maer Harbor - Continuing to monitor and adjust filter system for boat wash water prior to discharge and maintains an environmental agreement with their patrons and boaters.

Betz Industries - Cleaning products selected based on their "environmentally friendly" content, office paper reduction program gives priority to recycled products, and have worked with suppliers to buy raw materials in bulk/reusable containers to eliminate waste.

Campbell & Co. - Continued to recycle 100% of e-waste along with 3.5 tns of office paper, 1 tn of magazines, 0.5 tns of newspaper, 106 lbs of glass, 117 lbs of plastic, 41 lbs of batteries, 27 lbs of aluminum, 31 lbs of Styrofoam, 22 lbs of compact disks, and 10 lbs of transparencies.

Capitol Group Governmental Consultants - Recycled newspapers (0.5 tons), recycled bottles/cans (100 lbs), utilized two-sided copies saving 500 lbs of paper, and used electronic mail whenever applicable.

Cascade Engineering - Company-wide recycling efforts resulted in 835 tns of office paper, 845 tns of cardboard, and 1,884,000 lbs of scrap plastic. The Trim Solutions Plant recycled 17,945 gallons of used oil for fuel blending, 11,696 gallons re-refined into new motor oil, and 126 lbs of combustible liquid into clean solvent.

Chemical Management Associates - Implemented universal waste recycle program with 6 client plants, implemented mop water recycle programs, and performed waste audits identifying pollution prevention opportunities.

City of Grand Haven - Reduced paper usage by placing council agenda on website (80,000 sheets saved), recycled 32.5 tns of office paper, utilized hybrid-electric car for city business, reduced vehicle idling in winter months by 20%, installed electronic ballast and T8 lamps (40% reduction), utilizing propane transit vehicle for harbor operations, and recycled 1,200 gallons of used oil

City of Wyoming Clean Water Plant - Removed the following amounts of water-borne pollutants - 15 million lbs of BOD₅, 10 million lbs of Total Suspended Solids (TSS), 346,000 lbs of phosphates, and 16,758,000 lbs of dry biosolids.

Coldwater Board of Public Utilities - Recycling included; used oil (2,750 G), oil filters (660), antifreeze (300 G), batteries (5,616 lbs), utility poles, paper, fluorescent lamps (241), x-ray fixer (93 G), ballasts (291 lbs), and 410 high intensity discharge lamps.

Collins & Aikman - Recycled cardboard (137 tns) and office paper (3.4 tns). Reduced scrubber unit wastewater by 4000 gallons and die cleaning wastewater by 1000 gallons.

Complete Builders, Inc. - Continued to provide community education regarding the proper maintenance for residential and commercial septic systems.

Consumers Energy - Adrian Service - Extensive recycling programs established including; motor oil (600 G), antifreeze (50 G), oil filters (2 drums), batteries (950 lbs), Styrofoam (10 yds), wood pallets (70), office paper (15 yds), cardboard (40 yds), wood reels (reused 55), scrap wire, mechanics rags (cleaned/reused), glass, and office/street lights (>500).

Consumers Energy - BC Cobb - Continued to exceed their goal of a 73% ratio of western to eastern coal, which significantly reduces their sulfur dioxide emissions, and switched from multi-copy paper form to their electronic counterparts saving both paper and money.

Consumers Energy - J.C. Weadock - Extensive recycling programs including; electrical equipment, computers, office/cardboard, batteries, waste oil, aerosol cans, oil filters, and scrap metal.

Consumers Energy - J.H. Campbell - Achieved 80% compliance with aerosol can reduction project, reduced waste paper towel by 25%, recycled 15.6 tns of office paper, 7.8 tns of cardboard, 1,372 lbs of pallets, 1,272 lbs of batteries, 2,122 spent light bulbs, and 12,818 gallons of waste oil.

Consumers Energy - J.R. Whiting - Recycled office paper (109 yds), cardboard (828 yds), scrap metal (240,000 lbs), mercury (40 lbs) and spent lighting tubes. Also reused 8,616 gallons of waste lubricating oil as supplemental fuel.

Crystal Flash Energy - Switched to a new software system, which allowed conversion from old 4-part forms to electronic routing forms that only required 2-pages. This saves approximately 20,000 sheets of paper annually as well as substantial cost savings.

Cyltec LLC - Reused or recycled 100% of their wood pallets, recycling 100% of shop rags/gloves, recycle 80% of batteries use in production process, and has eliminated the use of hazardous materials by using environmentally friendly products.

Delphi Energy & Chassis - Achieved reductions in grinding swarf (335 tns), waste oil (23 tns), filter cake (43 tns), oil sludge (218 tns). Also, energy conservation efforts reduced CO₂ by 6.5 million lbs, SO₂ by 62,000 lbs, NO_x by 22,000 lbs, and CO by 1,200 lbs.

Demmer Corporation - Increased ratio of returnable versus expendable packaging by 15% (42% over 2 yrs), reduced non-hazardous disposal by another 15%, reduced number of 55-gallon drums in plant by 10%, and reduced energy consumption by 10%.

Denso Manufacturing - Eliminated radiator paint process (largest source of VOC emissions), reduced water usage by 1.45 million gallons, reduced landfill waste by 235,000 lbs, recycled over 11.7 million lbs of material, reduced lead solder usage by 55% (95,000 lbs) and increased cardboard recycling by 42% (800,000 lbs).

Depor Industries, Inc. - Extensive recycling of solvent rags with overall reduction in hazardous waste generated.

Dewitt Barrels - Recently opened their new facilities in Marne, Michigan which will significantly increase their process (per unit) efficiencies.

Dow Corning - Reduced scrap in rubber intermediate process by 80%, reuse/recycle program for byproducts and off-spec products has eliminated over 1.5 million lbs of waste, and site air emissions have been reduced by 50% compared to 1999.

DTE Energy - Recycled 743,000 lbs of paper, 119,000 lbs of cardboard, 9 million lbs of ferrous metal, 4 million lbs of non-ferrous metal and 380 gallons of vegetable oil.

DuPont Performance Coatings - Completed reformulation to non-leaded product, sale/reuse of waste to useful product, and segregation of non-hazardous waterborne/lab solid waste to fiber drums.

East Jordan Iron Works - Recycled a total of 11,302 tns of melt slag into cement production.

Eaton Corporation - Ann Arbor - Recycled 15,712 lbs of paper products, 48.85 tns of cardboard, nearly 4,500 batteries, and 1,759 lbs of mixed metals.

Eaton Corporation - Saginaw - Reduced landfill refuse (19%), reduced landfill-disposed sludge (59%), and reduced sand disposal by 37%.

Elm Plating Company - Eliminated rag disposal by purchasing reusable materials, reduced hexavalent chrome usage (1000 gallons) by switching to trivalent chrome, and 100% recycling of zinc as well as paint containers, light bulbs, lead-acid/alkaline batteries.

Enviologic Technologies - Continues to monitor energy consumption for reduction opportunities, currently recycles aluminum, glass, and plastics, and are currently using Fair Trade coffee, which is organically and shade grown, promoting sustainable farming.

Environmental Health Resources - Continued office-recycling program that includes paper, envelopes, corrugated boxes, telephone books, household batteries, and plastics. Strive to purchase products with recycled content and openly promote pollution prevention to their clients.

ESCO Company Limited Partnership – Reduced air emissions by 384 lbs, reduced hazardous waste generation by 47,560 lbs, and reduced wastewater generation by 531,809 lbs.

Fermi 2 Nuclear Power Plant – Realized a 2.2% and 30% reduction in hazardous/universal waste and mixed waste, respectively. Fermi 2 saw reductions in paper and cardboard recycling, which indicates success in their source reduction efforts, and replaced approximately 55 copiers with Energy Star Lanier units, which will reduce energy usage.

Ford Motor – ATNPC – Extensive-recycling efforts implemented including used oil filters, dry cell batteries, fluorescent lamp tubes, paint solvents, antifreeze, office paper, and cardboard. Also, reused non-hazardous cold cleaner avoiding disposal of 1,350 gallons.

Ford Motor – Livonia Transmission – Reduced VOCs and hazardous waste by 50% due to waste paint reductions, water usage per unit reduced by 18.6%, and processed/recycled over 964,000 gallons of oil.

General Motors Orion Assembly Center – Increase cardboard recycling from 280 to 630 tns, recycled 15 tns of plastic facias, recycled 68 tns of plastic caps, increase wood pallet recycling from 40 to 90 tns, and accomplished these rates with declining production.

General Motors PCC Validation – Reduced water usage by 21.7%, reduced plant refuse from 866 tns (2001) to 472 tns (2002), office paper reduction from 20 tns to 13 tns, used oil reduced from 6.2 tns to 3.9 tns, and energy consumption reduced by 6.9%.

GMPT – Bay City – Reduced non-productive waste by 2,945 tns and increased recycling efforts by 479 tns.

GMPT – Flint North – Extensive recycling program including; used oil (6,989 tns), office paper (14.2 tns), wood pallets (25,000 lbs), cardboard (186 tns), plastics (109,556 lbs), and grinding wheels (95,000 lbs).

GMPT – Livonia Engine – Reduced hazardous waste by 10,080 lbs, electrical consumption by 96,597,360 KWh, compressed air usage by 2,150,066 cubic feet, and water usage by 66,841,555 gallons.

GMPT – Romulus Engine – Continued plastic rings and caps recycle program effectively diverting 8.6 tns from the incinerator, earned 1,028 points towards electronic equipment for schools by recycling 367 printer/toner cartridges, and extensive recycling program including; used oil (906 tns), office paper (14.1 tns), wood pallets (537 tns), cardboard (451 tns), metal chips (844 tns), and grinding wheels (2.02 tns).

GMPT-Saginaw Malleable - Recycling activities include; batteries, cleaning solution/caustics, foundry fines/shakeout, glass, metals, oil, and water recovery. Substitution of bulk oil with vegetable based material resulting in decreased air emissions, extended product life, reduced material usage, and reduced employee exposure.

GMPT-Saginaw Metal Castings - Reused 390,000 tns of foundry sand and slag for landfill construction material and asphalt.

GMPT-Warren Transmission - Recycled 50.22 tns of paper, reduced energy usage by 4%, and compressed air usage by 3.4%.

Genesys Health System - Recycled a total of 6,425 fluorescent bulbs.

Grayling Generating Station - Carbon monoxide per MW produced was reduced by 17.7% and continuing with several recycling programs.

Great Lakes Contracting, Inc. - Reduced paint solvent usage by 80% with use of counter current cleaning procedure, reduce scrap steel by 20% by ordering materials cut to size, and currently recycling 90% of office paper and cardboard.

Great Lakes Gas Transmission Co. - Annual waste generated reduced from 358,000 lbs in 2001 to 228,000 lbs in 2002, a decrease of 36%. This represents an overall reduction of 89% since their P2 program inception in 1994.

Harry Major Machine - Reduced waste paint material by 495 gallons (69%) waste paper by 17,801# (62%), waste oil/coolant by 1630 gallons (61%), scrap steel by 65,180# (52%), paint use by 328 gallons (50%), trash by 102,000# (50%), scrap aluminum by 11,753# (44%), and virgin lacquer thinner by 232 gallons (41%).

Haworth Inc. - Recycled steel (6,887 tns), aluminum (156 tns), copper (5 tns), plastics (40 tns), cardboard (567 tns), paper (54 tns), fabric (287 tns), computer equipment (14 tns), sawdust (68 tns), skids (424 tns), light bulbs (2.7 tns), and batteries (32 tns).

Hazekamp Meats - Eliminated all cardboard waste, approximately 60 tns annually.

Hemlock Semiconductor - Reduced chlorodifluoromethane (R22) by 4,355 lbs, reduced nitrate compounds by 23,821 lbs, NOx reduced by 17,178 lbs due to boilers being replaced by steam generators.

Huron Inc. - Utilized various reduce, reuse and recycling techniques to reduce overall solid waste to landfills by 33%.

Irwin Seating Company - Reduced cardboard waste (10%), wood waste (4%), VOC emissions (90%), water usage (6%), electrical usage (4%), gas usage (7%), and solvent disposal (14%).

Jan's Professional Cleaners - Recycling water from cooling tower, recycling coolants from chiller, recycling plastic containers used in operations, and reusing hangers through clientele.

Keykert USA - Recently completed company brochure within the existing EMS structure for distribution to suppliers and contractors informing them of pollution prevention options.

Knoll, Inc. - Reduced water usage by 25%, from 2,956,014 gallons in 2001 to 2,223,981 gallons, in their powdercoat process.

March Coatings - Purchased HVLP spray guns which reduced material usage by 12% (Plant 2), reduced hazardous waste by 7% (Plant 2), reduced electrical usage by 25% (Plant 1), and reduced water and gas usage by 15% (Plant 1).

Marine Pollution Control - Internal paper recycling effort resulted in 4,085 lbs of paper recycled. In addition, batteries and automotive fluids were collected for recycling.

Mark IV Automotive - Eliminated solvents in the maintenance area parts washer, approximately 80 gallons annually of petroleum naphtha.

Matrix System Automotive Finishes, Inc. - Reclaimed through distillation 6,000 gallon of solvents, customer returns of finishes were returned to inventory rather than shipped as liquid industrial waste and reducing hazardous waste shipments by 42% in 2002 and over 80% since 1999.

Mayco Plastics, Inc. - Diverted 2,400 lbs of Tyvek suit by switching to launderable clean room suits, diverted 8,000 lbs of scrap plastics from landfill, reblended 120 gallon of mineral spirits for reuse, and recycled 384 fluorescent bulbs and 49 mercury switches.

Meridian Automotive Systems (Canton) - Established recycling programs for paper and aluminum resulting in recovery rates of 85 to 90%.

Meridian Automotive Systems (Detroit) – Recycled 56,140 lbs of expanded polypropylene bead (EPP) which is an overall diversion of approximately 15%.

Meridian Automotive Systems (Grand Rapids) – Recycled over 3,200 tns of office paper, cardboard and plastics.

Meridian Automotive Systems (Ionia) – Recycled 100% of production plastic scrap (26.5 tns), implemented recycling program resulting in 247 tns of scrap wood and pallets, and recycled 10 tns of nickel containing anode bags formerly land filled.

Meridian Automotive Systems (Paint Ops) – Implemented recycling program resulting in 19,126 lbs of scrap wood and pallets, 9,744 lbs of cardboard, and 640 lbs of office paper being recycled or reused. Initiated an aerosol can-puncturing program allowing capture of residual content and recycling. Utilized a 100% HAP free purge solvent resulting in 4.01 lb/gallon decrease.

Mid-West Instrument – Separation of oil from compressor blow off (300 gallons), reduced metal scrap by 15%, reduced mineral spirits usage by 25%, and reduced water content of spent coolants.

Michigan Boating Industries Association – Continuing with office paper recycling program and general reduction in the use of paper correspondence through increased electronic mail applications.

Ondeo-Nalco – Significantly increased the amount of employee training with the use of a Waste Minimization Team, and the facility was able to reduce their waste index from 6.5% to 6.0%.

Pfizer Global Manufacturing – Established an extensive recycling program for paper/cardboard, steel, brass/copper, batteries, solvents and mercury, and reduced point source air emissions by 17% (cumulative reduction of 95.7% since base year of 1997).

Pfizer Global Research and Development – Enacted best practices for laboratory fume hood emissions reductions, initiated new waste tracking system, collected 672 mercury containing thermometers (35.28 lbs), and initiated environmentally preferred purchasing program.

Pharmacia – Implementation of process to evaluate excess raw material users rather than disposal. Recycled materials include: paper (1200 tns), plastic (130 tns), glass (284 tns), batteries (2.4 tns), cardboard (8,064 tns), metal (22 tns), carbon (62 tns), and fly ash (1240 tns). In addition, 12 million gallons of solvents were recovered and either reused or recycled.

Pioneer Foundry Company – Reduced waste disposal by over 80% since 1997, electrical consumption has decreased and solid waste reduction efforts have saved them money.

Presque Isle Power Plant – Extensive recycling and reuse program, reduction program removed 17.9 lbs of mercury, and beneficially reused over 16,000 tns of fly ash and 12,900 tns of bottom ash.

RMT, Inc. – Recycled aluminum, paperboard, corrugated, office paper, toner/print cartridges, phone scrap, and computer components. Also continues to stress electronic deliverables (email or CD) and double-sided printing, when possible.

Ronningen R & D Company – Continue to maintain and improve electrical consumption, cardboard recycling, aluminum scrap recycling, graphite block recycling, and oil/solvent recycling.

Sackner Products – Continued to eliminate all polyester scrap disposal, 314,798 lbs were recycled into machined color fibers, recycled 4,000 lbs of office related wastes, and implemented purchasing policy that give preference to those who recycle or are MBP3 partners.

Siemens VDO Automotive – Reduced liquid hazardous waste (fuels, oils) from 20 drums in 2001 to 10 drums in 2002, implemented used laboratory equipment reuse program with local trade schools, and created a global environmental policy and guidelines.

Sierra Consultants – Overall focus of Sierra is to help other companies implement P2 strategies, utilized biodiesel fuel in diesel-powered equipment, used environmentally sensitive solvents, and used programmable thermostat to conserve natural gas consumption.

SQS, Inc. – Continued extensive recycling program with cardboard, Styrofoam dunnage, plastic containers, toner cartridges, metals and metal cans, batteries, and empty aerosol cans.

Steelcase Inc. – Conversion of liquid to powder paint resulted in elimination of 275,000 lbs of VOC air emissions, utilized distillation units for solvent reuse, recycled 800 printer cartridges, and collected 11,000 Christmas cards for St. Jude's Children's Hospital.

Solutia, Inc. – Recycled 2300 lbs of fluorescent light bulbs, reused approximately 10 million pounds of Saflex plastic interlayer rather than landfill, and implemented phyto remediation project to reduce groundwater discharge to surface water.

TAC Manufacturing – Reduced plastic scrap disposal by 10% with increased use of regrind machine, reduced grease disposal by utilizing all product in individual containers, and reduce the amount of ink jet cartridges by 75% through implementing recycle program through CleanLites (Mason, MI).

T.E.S. Filer City Station - Extensive-recycling program includes; 10,250 lbs of paper/cardboard, 179,670 lbs of scrap metal, 900 gallons of used oil, 174 lbs batteries, 27,000 tns of scrap wood, and 3,716,501 gallons of wastewater.

TriMedia Consultants - Conducted office recycling of paper (300 reams) and all ink and toner cartridges.

U.S. Postal Service Lansing - Recycled all undeliverable bulk business mail, newspapers, magazines, cardboard, metals, used oil, video jet ink, plastics, glass, fluorescent bulbs, ballasts, batteries, and other materials (783 tns of material).

Visteon Corporation Chesterfield Plant - Recycled 706 tons of auto trim, 142 tons of seat foam, 429 tons of cardboard, 524 tons of wooden pallets, 24 tons of office paper, and 22 tons of vinyl. The ISO 14001 Cross Functional Team implemented 2 new recycle programs at Chesterfield, which included plastic clips and nonrefundable plastic bottles.

Visteon Corporation Sheldon Road - Reduced solid hazardous waste by 32% (2,887 lbs), reduced solid non-hazardous waste by 8% (267 tns), recycled 1,433 tns of ferrous/non-ferrous metals, reclaimed 52,664 gallons of used oil, 212 gallons of used solvents, recycled 9 tns of oil filters, 57 tns of scrap plastic, 400 lbs of batteries, and 959 tns of paper/cardboard and wood.

Wacker Chemical - Achieved a 33% reduction in non-hazardous waste stream, reduced hazardous waste generated by 15%, and increase office paper recycling by 5%.

Yamaha Musical Products - Reused cardboard packaging from supplier in Asia and eliminated their domestic purchases (reduced 11.8 tns), water conservation projects resulted in savings of 2,076,951 gallons annually, and recycled paper (244,920 lbs), metals (16,612 lbs), and batteries (60 lbs).

MBP3 PROGRAM UPDATES

MEMBER WORKSHOPS

The 2nd and 3rd MBP3 workshops were held at the Pfizer Global Research and Development facility in Ann Arbor and at Yamaha Musical Products in Grand Rapids. The workshop was deemed a success based on conversations and feedback by some of the 50 partners in attendance at each event. The workshops provide an opportunity for partners to share company success stories, innovative pollution prevention ideas, and program benefits. The workshops also provide an excellent means for partners to network and often led to independent dialogue between members. The agenda for the workshop included speakers on a wide array of topics including—electronics recycling, environmentally preferred products, pollution prevention successes, environmental cost accounting, environmental management systems/ISO 14001 certification, and greening the supply chain.

Some benefits of participating in the workshop are as follows:

- The host facility is an active participant in the MBP3 along with the majority of the speakers. Partners gain an additional value-added component to participating in the partnership by learning from their peers at other companies.
- The networking opportunities are especially significant given that all participating members have become or are learning to be environmental stewards in their respective industries. Businesses develop contacts with other companies that are actively engaged in environmental stewardship activities.
- The information presented at the workshop is taken directly from experiences of the companies that reaped the benefits and allow for invaluable technology transfers through the question and answer portion of the workshop. Partners are encouraged to speak and share their expertise with the rest of the attending partners.

WEB/E-MAIL SERVICES

Enhancements to the MBP3 Homepage and all other program related pages have made this a useful tool to MBP3 partners and those looking for good service and quick information on pollution prevention. The partnership website is featured at www.michigan.gov/deq, "Pollution Prevention," "Business Partnerships". Some of the electronic services available and improvements include:

- Continued links to MBP3 partner homepages. Partners with internet homepages are encouraged to have their respective homepage address placed on the MBP3 Website for quick access (approximately 90% of partners currently participate).
- The MBP3 directory is updated as new partner's join or information changes. The directory includes organization name, contact person, phone number, and city. This directory is an easy to use source for membership information.
- Partners with electronic mail capabilities receive announcements, technical publication listings, and upcoming training opportunities as they are posted.
- Upcoming pollution prevention and environmental education events and issues are identified through the DEQ Calendar.
- Availability of previously submitted goals using an online database, to assist partners when selecting P2 goals. This database will also be available through the website for partners seeking new pollution prevention ideas.
- Electronic submittal of annual reports and registrations has seen expanded usage this year. The electronic annual reporting form was used by over 80% of the respondents during 2002's reporting period.

PARTNERSHIP OUTREACH

Various outreach activities were conducted throughout the year to promote the MBP3 to Michigan industrial sectors, trade associations, and other organizations and group forums active in the state. The following represents list of informal presentations, contacts, and mailings made during 2002:

- Presented program information to perspective companies and organizations upon request. This included a number of formal presentations at conferences and workshops.
- Completed mailings to approximately three hundred and fifty (350) companies seeking pollution prevention information.
- Challenged existing partners to "sell" the program to their business contacts (e.g. vendors, suppliers, business partners).
- Worked together with the Clean Corporate Citizen program to enlist new members and support existing programs.
- Distributed MBP3 materials at various workshops and seminars attended by other representatives of the Environmental Science & Services Division.
- Emailed or faxed forty-two (42) pollution prevention and environmental education announcements to MBP3 partners and other pollution prevention contacts.
- Considered twenty-six (26) informational requests from various partners. Topics included polypropylene recycling, transformer removal, alum sludge handling, drum recycling/reuse, and shrink/stretch wrap recycling. The information obtained was shared with companies outside the partnership and resulted in several companies joining MBP3.

RELATED ASSISTANCE PROGRAMS

RETIRED ENGINEERS TECHNICAL ASSISTANCE PROGRAM (RETAP)

The Retired Engineer Technical Assistance Program (RETAP) is an example of a technical assistance program that is available to MBP3 partners. RETAP offers, by request, confidential and non-regulatory waste assessments for businesses and institutions. Businesses with fewer than 500 employees may take advantage of the services of the RETAP to identify opportunities for reducing or eliminating waste, increasing process efficiency, and lowering energy usage. RETAP assessors have considerable expertise in many manufacturing sectors and are trained to look for waste reduction opportunities. Businesses receive a confidential report that identifies waste reduction recommendations specific for the facility. The recommendations may include suggestions that improve process or energy efficiency, reduce liability, or decrease disposal costs.

Over 577 assessments have been conducted in Michigan since the beginning of the program in 1994. The program has expanded to include Engineering Student Internships and Technology Demonstrations where additional technical assistance is provided for companies interested in pursuing pollution prevention technologies.

Companies have reported that over 75% of the recommendations made in RETAP reports are in some stage of implementation within one year after the assessment and have provided significant cost savings and waste reductions. The MBP3 anticipates an increase in pollution prevention success stories among its membership that take advantage of RETAP. For more information, you may contact Liz Sapio, RETAP program manager, via e-mail at sapioe@michigan.gov or by telephone at 517-335-0081.

MICHIGAN GREAT PRINT BUYERS

The Michigan Great Printers Project (MI-GPP) consists of over 130 print shops who voluntarily work to minimize the impact on human health and the environment while producing a quality product for their customers. Members of MBP3 can help promote pollution prevention in the printing industry by becoming involved in the MI-GPP as a participating buyer of "Great Print" materials.

As buyers of print materials, you have the ability to make choices that diminish environmental impact in the printing and publishing industry without sacrificing artistic and economic concerns. For example, when purchasing printing of any kind you can make a difference by following these simple guidelines:

- Ask your printer what they're doing to reduce the environmental impacts of the chemicals and inks they use.
- Choose uncoated, totally chlorine-free paper with high post-consumer recycled content.
- Minimize paper use by specifying lighter weight paper and using both sides.
- Avoid neon and metallic inks
- Use water-based, non-chlorinated glues.
- Don't print more than you need.

Not every printer will be able to meet all your green specifications; however, members of the MI-GPP seek continuous environmental improvement through periodic assessments of operations, materials, and products, and by drawing on information and ideas from employees, print buyers, suppliers, and neighbors. Michigan's Great Printers are working with their customers to produce an environmentally superior product that meets cost and quality needs.

Let your vendors know that environmental excellence is important to you by making a pledge to the Great Print Buyers initiative. As a Great Print Buyer, you would support Great Printers when economically feasible and encourage other individuals and organizations to the same. To learn more about the MI-GPP or Great Print Buyers initiative, please visit the web site at www.michigan.gov/deq: click on "Pollution Prevention," then "Business Partnerships" then "Great Printers". You may also contact Karen Edlin, MI-GPP program manager, via e-mail at edlink@michigan.gov or by telephone at 517-373-0604.

ENVIRONMENTALLY PREFERRED PURCHASING (EPP)

Environmental purchasing in 2002 helped our MBP3 partners reduce waste, increase environmentally sound purchases, and assisted in meeting their pollution prevention goals. Numerous MBP3 partners requested assistance with their environmental purchases, both from a specific product standpoint and with policy development. Partners requested information about a variety of environmentally friendly product categories, including; bio-diesel fuels, safer (non-toxic) cleaners, and non-chlorine bleached paper products. This information aided several partners in establishing new goals and initiating new purchasing programs.

Environmental Preferred Purchasing services are intended to encourage and increase the use of products and services that affect the environment less than competing products, taking into account raw materials, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and disposal of the product. "Environmentally preferable" refers to products or services that have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. One main goal of this program is to promote the inclusion of environmental factors along with product safety, price, performance, and availability when any product is purchased.

There are several reasons for purchasing environmentally preferred products.

- ✓ Use EPP to benefit human health and the environment.
- ✓ Improve worker health and safety.
- ✓ Reduce operating and maintenance costs, including hazardous material handling and disposal costs.
- ✓ Reduce liabilities by purchasing less hazardous products.

The purchase of environmentally preferable products and services contributes to overall demand for such products and services. This ultimately helps promote the credibility and increase the number and quality of such products, making it easier and more economical for consumers to purchase environmentally preferable products and services.

ENVIRONMENTAL MANAGEMENT SYSTEMS

Strong business performance and effective environmental management are integral partners in today's competitive world. Creating a sustainable society through voluntary partnerships and environmental incentive programs is emerging as a viable alternative to the "command and control" regulatory regimes of the past. Michigan leads the nation in ISO 14001 certified Environmental Management Systems (EMS).

ISO 14001 is an international EMS standard developed by over 120 countries in 1996 to support one universally accepted standard. To register, 3rd party auditors are contracted to analyze the EMS documents and verify the "environmental footprint" of that site. Internal auditing ensures it remains an accurate tool that is updated to reflect real life conditions.

Common elements to all EMSs include:

- ✓ Management commitment to allocate resources, time and assign responsibilities;
- ✓ Signed policy statements that include a commitment to compliance, pollution prevention and continual improvement;
- ✓ Identification of potential environmental impacts from all products, by-products, goods or services;
- ✓ Establishing attainable goals and measurable target objectives;
- ✓ Procedures for work instruction, monitoring, measurement, training, corrective actions, and document control;
- ✓ Management review and continual improvement.

MBP3 and the EMS are great partners driving today's environmental performance! For more information, you may contact Kelie Bond, EMS program manager, via e-mail at bondk@michigan.gov or by telephone at 517-241-7969.

CLEAN CORPORATE CITIZEN (C3) PROGRAM

As more businesses become involved in MBP3 and begin to understand the benefits of P2, many partners actively pursue Clean Corporate Citizen (C3) designation as the next natural step. There are 36 MBP3 partners who have chosen to pursue or have achieved designation under the C3 Program. An advantage for MBP3 partners is that their P2 membership automatically satisfies the P2 criteria of the C3 designation process. The voluntary C3 Program offers public recognition and enhanced regulatory flexibility for regulated establishments that demonstrate strong environmental performance and a commitment to continual improvement. The ultimate goal of the C3 Program is to provide long-term benefits to Michigan's environment. An increase in responsible environmental management and active pollution prevention results in reduced pollution of air, water, and soils.

The team-based EMS has led to documented cost savings, improved compliance, increased community awareness, and less environmental impacts for many C3 and MBP3 partners. For more information, you may contact the C3 Project Managers: Valerie Haan, e-mail haanv@michigan.gov, telephone 517-241-0231, or Kelie Bond, e-mail bondk@michigan.gov, telephone 517-241-7969.

MBP3 Partners

Allegan County

| | | | |
|-------------------------|--------------------|-----------|----------------|
| Haworth, Inc. | Ms. Lara Dickerson | Holland | (616) 393-1633 |
| Saugatuck Yacht Service | Mr. John Danno | Saugatuck | (269) 857-2151 |
| Tower Marine | Mr. R.J. Peterson | Douglas | (269) 857-2151 |

Barry County

| | | | |
|-----------------------------|------------------|---------|----------------|
| McCormick Enterprises, Inc. | Ms. Tina Boreham | Del ton | (269) 623-2582 |
| Sunshine Prairie Farm | Mr. Tom Guthrie | Del ton | (269) 623-2261 |

Bay County

| | | | |
|---------------------------------|--------------------|-------------------|----------------|
| Consumers Energy - JC Weadock | Mr. Jeff Caverly | Essexville | (989) 891-3328 |
| Delta College | Mr. Jay Van Houten | University Center | (989) 686-9315 |
| General Motors - Bay City Plant | Mr. Mike Switala | Bay City | (989) 894-7273 |

Berrien County

| | | | |
|-----------------------------------|------------------|---------------|----------------------|
| American Electric Power - Nuclear | Mr. Jon Harner | Bridgman | (269) 465-5901 x2102 |
| Modern Plastics Corporation | Mr. Steve Silcox | Benton Harbor | (269) 926-8201 |

Branch County

| | | | |
|-------------------------------------|-----------------|-----------|----------------|
| Coldwater Board of Public Utilities | Mr. David McKay | Coldwater | (517) 279-9531 |
|-------------------------------------|-----------------|-----------|----------------|

Calhoun County

| | | | |
|---------------------|-----------------|--------------|----------------------|
| DENSO Manufacturing | Mr. Mike Myszka | Battle Creek | (269) 965-3322 x3809 |
|---------------------|-----------------|--------------|----------------------|

Charlevoix County

| | | | |
|------------------------|----------------------|-------------|----------------|
| East Jordan Iron Works | Mr. Richard K. Hodge | East Jordan | (231) 536-4484 |
|------------------------|----------------------|-------------|----------------|

Crawford County

| | | | |
|-----------------------------|------------------|----------|----------------|
| Grayling Generating Station | Mr. Parish Geers | Grayling | (989) 348-4575 |
| Weyerhaeuser Company | Ms. Kathi Moss | Grayling | (989) 348-3475 |

Eaton County

| | | | |
|---------------------------------------|-------------------|---------|----------------|
| Demmer Corporation - Delta Plant | Mr. Chris Carrier | Lansing | (517) 703-2138 |
| General Motors Lansing Stamping Plant | Mr. Dean Roberts | Lansing | (517) 377-2085 |

Genesee County

| | | | |
|--------------------------------|---------------------------|------------|---------------------|
| Atlas Technologies, Inc. | Mr. William Broderick | Fenton | (810) 714-1307 |
| Corsair Engineering, Inc. | Mr. Bruce L. Simmons, Sr. | Flint | (810) 234-3664 |
| General Motors - Flint North | Ms. Megan Snow | Flint | (810) 236-7752 |
| Genesee Power Station | Mr. Henry Wiggins | Flint | (810) 785-4144 x234 |
| Genesys Health System | Mr. Scott W. Cruzen | Flint | (810) 742-7700 |
| Jan's Professional Drycleaners | Ms. Jan Barlow | Clio | (810) 687-7590 |
| Universal Coating, Inc. | Ms. Julie Taylor | Mt. Morris | (810) 686-5934 |

Grand Traverse

| | | | |
|-----------------------------|------------------|---------------|----------------|
| Skilled Manufacturing, Inc. | Ms. Laura Miller | Traverse City | (231) 941-0290 |
|-----------------------------|------------------|---------------|----------------|

Gratiot County

| | | | |
|----------------------|-------------------------|-----------|----------------|
| Alpha Plastics, Inc. | Mr. Kenneth L. Sangster | St. Louis | (989) 681-5781 |
| Bear Truss, Inc. | Mr. Larry Helman | St. Louis | (989) 681-5774 |

Hillsdale County

| | | | |
|--------------------|-------------|------------|----------------|
| Tenneco Automotive | Mr. AJ Hale | Litchfield | (517) 542-4439 |
|--------------------|-------------|------------|----------------|

Ingham County

| | | | |
|--|--------------------|-------------|---------------------|
| Associated Petroleum Industries | Mr. John Griffin | Lansing | (517) 484-8229 |
| Capital City Associates | Mr. Bob Egan | Lansing | (517) 484-7200 |
| Demmer Corporation - Oakland | Mr. Shawn Roe | Lansing | (517) 703-3121 |
| Foundry Association of Michigan | Mr. Bob Egan | Lansing | (517) 484-3400 |
| Keykert USA | Ms. Kathy Gurnee | Webberville | (517) 521-5286 |
| Michigan Chemical Council | Ms. Cynthia Zwick | Lansing | (517) 372-8898 |
| MI Institute of Laundering/Drycleaning | Mr. Lou Monticello | Lansing | (517) 337-2909 |
| Palmer Engineering, Inc. | Mr. James Hammel | Lansing | (517) 321-5399 x289 |
| Pratt & Whitney AutoAir, Inc. | Mr. Jim Blue | Lansing | (517) 285-5311 |
| Sparrow Health System | Mr. John Dyke | Lansing | (517) 483-2521 |
| USPS - Lansing Branch | Ms. Mary Stefanick | Lansing | (517) 337-8793 |

| | | | |
|--------------------|-----------------|--------|----------------|
| W.E.S. Corporation | Mr. David Woltz | Okemos | (517) 347-3668 |
|--------------------|-----------------|--------|----------------|

Ionia County

| | | | |
|--------------------------------------|-----------------|-------|----------------------|
| Meridian Automotive - Paint Facility | Mr. Brian Head | Ionia | (616) 527-1220 x2504 |
| Meridian Automotive - Ionia Ops | Mr. Chad Murphy | Ionia | (616) 527-1220 |

Jackson County

| | | | |
|---------------------------------------|--------------------|---------|---------------------|
| Colonial Press, Inc. | Mr. Morris Conklin | Jackson | (517) 782-2737 |
| Consumers Energy - Parnall Road | Mr. Doug Crips | Jackson | (517) 788-7148 |
| Eaton Aeroquip Inc. | Mr. George Hill | Jackson | (517) 787-8121 |
| Elm Plating Company | Ms. Ed O'Connor | Jackson | (517) 782-8161 |
| Michigan Seat Co-Suspension Seat Div. | Mr. Mike Fancher | Jackson | (517) 787-3650 x264 |
| Michigan Seat Company | Mr. Mike Fancher | Jackson | (517) 787-3650 x264 |
| Ondeo Nalco - Jackson Plant | Mr. Matt Bero | Jackson | (517) 782-8262 x380 |
| Pioneer Foundry Company, Inc. | Mr. Bob Lefere | Jackson | (517) 782-9469 |
| TAC Manufacturing, Inc. | Mr. Todd Bingman | Jackson | (517) 789-7000 |

Kalamazoo County

| | | | |
|----------------------------------|----------------------------|-----------|----------------|
| ARVCO Container Corporation | Mr. David McDaniel | Kalamazoo | (269) 381-0900 |
| Envirologic Technologies, Inc. | Ms. Wendy Schlett | Kalamazoo | (269) 342-1100 |
| Pharmacia & Upjohn Company | Mr. Jack Balgenorth | Kalamazoo | (269) 833-4320 |
| Ronningen Research & Development | Ms. Elizabeth Thulin, M.S. | Vicksburg | (269) 649-0520 |
| Taplin Environmental Contracting | Mr. Brian Borguno | Kalamazoo | (269) 375-9595 |

Kent County

| | | | |
|--|----------------------|---------------|----------------|
| Access Business Group | Mr. Rob Rempalski | Ada | (616) 787-1153 |
| Behr Industries Corporation | Mr. Mark Gillette | Comstock Park | (616) 785-9400 |
| Benteler Automotive | Mr. Gary Crawley | Grand Rapids | (616) 475-5936 |
| Betz Industries | Mr. Bill Tellefsen | Grand Rapids | (616) 453-4429 |
| BLDI Environmental & Safety Mgmt. | Mr. Joe Berlin | Grand Rapids | (616) 459-3737 |
| Capitol Group Governmental Consultants | Mr. William Lievense | Ada | (616) 682-9925 |
| Cascade Engineering | Ms. Kelley Losey | Grand Rapids | (616) 975-4716 |
| City of Wyoming - Clean Water Plant | Mr. Myron Erickson | Grandville | (616) 261-3562 |
| Crystal Flash Energy | Ms. Carol Anderson | Grand Rapids | (616) 365-0012 |
| Delphi Energy and Chassis | Mr. Robert Dickens | Grand Rapids | (616) 246-2116 |
| DeWitt Barrels | Mr. Michael DeWitt | Marne | (616) 677-2626 |

| | | | |
|---------------------------------------|----------------------|--------------|---------------------|
| Environmental Health Resources, Inc. | Ms. Deborah Alderink | Grand Rapids | (616) 735-1515 |
| Evans Tempcon | Mr. Harry Huston | Grand Rapids | (616) 447-2845 |
| Irwin Seating Company | Mr. Kevin Brower | Grand Rapids | (616) 574-7443 |
| Knoll, Inc. | Ms. Kathy Jo Boerma | Grand Rapids | (616) 957-7298 |
| Lacks Enterprises, Inc. | Mr. Mark Stratton | Kentwood | (616) 554-7161 |
| Meridian Automotive Systems - Plant 1 | Ms. Layali Schuster | Kentwood | (616) 949-1250 |
| Meridian Automotive Systems - Plant 5 | Ms. Layali Schuster | Kentwood | (616) 949-1250 |
| Meridian Automotive Systems - Plant 7 | Ms. Layali Schuster | Kentwood | (616) 949-1250 |
| Sackner Products - Unit of Jason Inc. | Mr. Michael Pickem | Grand Rapids | (616) 957-9323 |
| Steelcase, Inc. | Mr. Phil Hester | Grand Rapids | (616) 247-3041 |
| Suspa, Incorporated | Mr. Robert Keena | Grand Rapids | (616) 246-5428 |
| Teknit | Ms. Shannon Cox | Grand Rapids | (800) 762-3331 x134 |
| TekSolutions, LLC | Ms. Shannon Cox | Grand Rapids | (800) 762-3331 x134 |
| Yamaha Musical Products | Mr. Derek Humphries | Grand Rapids | (616) 575-1320 |

Lenawee County

| | | | |
|---------------------------------------|---------------------|----------|----------------|
| Consumers Energy - Adrian Service Ctr | Mr. Anthony Aurino | Adrian | (989) 729-3259 |
| Cyltec, LLC | Mr. Luis Bonilla | Tecumseh | (517) 424-6765 |
| Wacker Chemical | Mr. Robert Sullivan | Adrian | (517) 264-8361 |

Livingston County

| | | | |
|--------------------------|------------------|----------|---------------------|
| Battery Solutions Inc. | Mr. Chris Sova | Brighton | (810) 494-5010 |
| March Coatings, Inc. | Mr. Mark Tomasik | Brighton | (810) 229-6464 x221 |
| March Coatings - Plant 2 | Mr. Mark Tomasik | Brighton | (810) 229-6464 x221 |

Macomb County

| | | | |
|--|----------------------------|------------------|----------------|
| Belle Maer Harbor | Mr. Eric Foster | Harrison Twp. | (586) 465-4534 |
| Chivas Industries | Mr. Keiano Vanzant | Sterling Heights | (586) 726-4658 |
| Dupont Automotive | Ms. Denise Trabbic-Pointer | Mt. Clemens | (586) 468-9087 |
| General Motors Technical Center | Ms. Candice Lyon | Warren | (586) 986-7530 |
| General Motors - Warren Transmission | Mr. Asefaw Teclegiorgis | Warren | (313) 252-0791 |
| Harry Major Machine & Tool | Mr. Rob Lester | Clinton Twp. | (586) 493-4028 |
| Inalfa/SSI Roof Systems | Mr. Will Jacobs | Warren | (586) 758-6620 |
| Mayco Plastics, Inc. | Mr. Mark Gibson | Sterling Heights | (586) 803-6043 |
| Mid-West Instrument | Mr. Jim Lueck | Sterling Heights | (586) 254-6500 |
| Tweddle Litho Company | Mr. Timothy Evans | Clinton Twp. | (586) 783-6149 |
| Visteon Corporation - Chesterfield Plant | Ms. Susan A. Toczylowski | Chesterfield | (586) 466-0764 |

Manistee County

T.E.S. Filer City Station Mr. Larry Roels Filer City (231) 723-6573 x109

Marquette County

TriMedia Consultants Ms. Lisa Coombs-Gerou Marquette (906) 228-5125
Wisconsin Electric Power - Presque Isle Mr. Les Kowalski Marquette (906) 226-5757

Mecosta County

Mark IV Automotive Mr. Jamie Pritchard Big Rapids (231) 796-2691 x229

Midland County

Arnold Center, Inc. Mr. Mike Shea Midland (989) 631-9570
Dow Corning Mr. Theron Brayman Midland (989) 496-8674

Monroe County

Consumers Energy - JR Whiting Mr. Tom St. Bernard Erie (734) 848-2617
Detroit Edison - Fermi II Plant Ms. Elvia Ankawi Newport (734) 586-4883

Montcalm County

Sierra Geological & Environ. Consulting Mr. David VerSluis Kent City (616) 678-5157

Muskegon County

Consumers Energy - BC Cobb Mr. Robert Bell Muskegon (231) 727-6242
ESCO Company Limited Partnership Mr. Bruce Katje Muskegon (231) 727-6459
Hazekamp Meats Mr. David Hazekamp Muskegon (231) 773-6425

Oakland County

Brownrigg Companies, Ltd. Ms. Valissa Naganashe Auburn Hills (248) 373-5580
Depor Industries, Inc. Mr. Rick Waitz Troy (248) 362-3900
Douglas Cleaners Mr. David Underdown Birmingham (248) 642-6230
Eagle Ottawa Rochester Hills, Ltd. Ms. Wendy Scollon Rochester Hills (248) 844-1332
Eaton Corporation Mr. Bill Burlingame Rochester Hills (248) 608-7347
Electrical Design and Control Mr. Daniel Mack Troy (248) 280-0630

| | | | |
|---|------------------------|------------------|----------------|
| Flexible Products Co. Inc. | Mr. Doug Reid | Auburn Hills | (248) 852-5000 |
| General Motors - Orion Assembly Center | Ms. Olga Chernolikhova | Orion | (248) 377-5926 |
| General Motors - PCC Validation | Ms. Mary Morgan | Pontiac | (248) 753-6379 |
| General Motors - Pontiac Assembly Ctr. | Mr. Tom Vallone | Pontiac | (248) 452-2781 |
| Great Lakes Gas Transmission Co. | Mr. Bruce Bendes | Troy | (248) 205-7674 |
| ITT Industries | Ms. Cynthia Mulder | Leonard | (248) 628-4899 |
| Keykert USA | Ms. Kathy Gurnee | Wixom | (517) 521-5286 |
| Matrix System Automotive Finishes, Inc. | Mr. Kent Zimmermann | Walled Lake | (248) 668-8135 |
| Polar Environmental Service Corp. | Mr. Jamal Haider | Ferndale | (248) 546-6100 |
| Siemens Automotive Corporation | Mr. Sam Seabright | Auburn Hills | (248) 209-3866 |
| Tesco Engineering | Mr. Philip Postma | Auburn Hills | (248) 836-5153 |
| The Wireless Source | Ms. Jonnie Sullivan | Bloomfield Hills | (248) 661-1815 |

Ogemaw County

| | | | |
|--------------------------|------------------|-------------|----------------|
| Taylor Building Products | Mr. Bruce Kempel | West Branch | (989) 345-8215 |
|--------------------------|------------------|-------------|----------------|

Ottawa County

| | | | |
|-------------------------------------|----------------------|-------------|---------------------|
| Automatic Spring Products | Mr. Bob Van Dyke | Grand Haven | (616) 842-7800 |
| Baker Furniture | Mr. Paul Brandsen | Holland | (616) 392-3181 |
| City of Grand Haven | Ms. Carrie Larks | Grand Haven | (616) 842-3210 |
| Consumers Energy - JH Campbell | Ms. Laurie Larsen | West Olive | (616) 738-3265 |
| Donnelly Corporation | Ms. Susan Paauwe | Holland | (616) 786-6064 |
| Eagle Ottawa Leather Company | Mr. Scott Braspeninx | Grand Haven | (616) 842-4000 |
| Great Lakes Contracting | Mr. Kenneth Osika | Grand Haven | (616) 846-8888 |
| Herman Miller, Inc. | Mr. Willie Beattie | Zeeland | (616) 654-3640 |
| MWP Inc. - Pleuco Technologies Div. | Mr. Gary Spear | Holland | (616) 772-3711 x216 |
| Pfizer Global Manufacturing | Mr. John Voreis | Holland | (616) 392-2375 |

Saginaw County

| | | | |
|--|----------------------|---------|----------------------|
| Eaten Corporation | Mr. Steve Smith | Saginaw | (989) 758-7111 |
| General Motors - Saginaw Malleable | Ms. Jennifer Schnoes | Saginaw | (989) 757-0921 |
| General Motors - Saginaw Metal Casting | Mr. Ray Ilkka | Saginaw | (989) 757-1473 |
| Hemlock Semiconductor | Mr. Kevin Lamb | Hemlock | (989) 642-5201 x2503 |

Sanilac County

| | | | |
|-------------|----------------|-----------|----------------------|
| Huron, Inc. | Mr. Bob Conely | Lexington | (810) 359-5344 x4701 |
|-------------|----------------|-----------|----------------------|

Shiawassee County

Complete Builders, Inc. Ms. Carol Inman Bancroft (989) 634-9154

St. Clair County

Huron, Inc. Mr. Bob Conely Port Huron (810) 359-5344 x4701
LDM Technologies Ms. Joyce Evans St. Clair (810) 637-2063
Schefenacker Vision Systems USA, Inc. Ms. Tracey Mellenthin Marysville (810) 388-2434

Washtenaw County

AEC-Manchester Stamping Mr. Jim Friedl Manchester (734) 428-8301
Applied Environmental Ms. Anna Knafels Ann Arbor (734) 975-1970
Eaton Corporation PSCO Mr. Vincent Paige Jr. Ann Arbor (734) 623-5346
Georgia-Pacific Corporation Mr. Patrick Brady Milan (734) 439-4906
Kaiser Optical Systems, Inc. Mr. David Schiller Ann Arbor (734) 665-8083
Pfizer Global Research & Development Mr. Michael Lemon Ann Arbor (734) 622-3059
ReCellular, Inc. Mr. Gary Straus Ann Arbor (734) 205-2222
RMT, Inc. Ms. Sharilyn Zamzow Ann Arbor (734) 971-7080
The Traverse Group Ms. Julie Stinefurf Ann Arbor (734) 747-9301

Wayne County

American Axle & Manufacturing Ms. Lynn Socha Detroit (313) 974-2124
ANR Pipeline Company Mr. Shane Yokom Farmington Hills (248) 994-4085
ATOFINA Chemicals, Inc. Mr. Larry Bickham Riverview (734) 246-2028
Atomic Cleaning Systems LLC Mr. Eric Thompson Livonia (248) 615-4400
AutoAlliance International, Inc. Mr. Terence Filipiak Flat Rock (734) 782-7797
BASF Corporation - Wyandotte Mr. Dave Sheaves Wyandotte (734) 324-6836
Campbell & Company Ms. Andrea Miller Dearborn (313) 203-7184
Chemical Management Associates, Inc. Mr. Pete Myhrum Plymouth (866) 243-6001
C-Mar Products, Inc. Mr. Marshall Reames Jr. Detroit (313) 891-5534
Collins & Aikman - Westland Ops Mr. Martin Mazurkiewicz Westland (734) 721-4858
DTE Energy Ms. Patty Ireland Detroit (313) 235-5572
E & E Manufacturing Co., Inc. Mr. Christopher Lynn Plymouth (734) 354-3301
Ford Motor Co. - ATNPC Ms. Kristen Cox Livonia (734) 458-0902
Ford Motor Co. - Livonia Transmission Ms. Barbara Babut Livonia (734) 523-4526
General Motors - Livonia Engine Mr. Charles They Livonia (734) 523-0374

| | | | |
|---|------------------------|----------|--------------------|
| General Motors - Romulus Engine | Mr. Tom Rang | Romulus | (734) 595-5419 |
| General Motors - Romulus Transmission | Ms. Sandy Kramarich | Romulus | (734) 595-5736 |
| General Oil Company, Inc. | Ms. Bonnie Hollander | Livonia | (734) 266-6500 |
| Gil-Mar Manufacturing Co. | Mr. Stanley Ray | Canton | (734) 459-7986 |
| Inland Water Pollution Control, Inc. | Ms. Susan Johnson | Detroit | (313) 841-5800 |
| Magni Industries, Inc. | Mr. Mike Fronczak | Detroit | (313) 843-7855 |
| Marathon Ashland Petroleum, LLC | Mr. David Linington | Detroit | (313) 297-6341 |
| Marine Pollution Control Corporation | Mr. Michael Snyder | Detroit | (313) 849-2333 |
| Meridian Automotive Systems - Canton | Mr. Derrick Register | Canton | (734) 931-1400 x48 |
| Meridian Automotive Systems - Detroit | Mr. Derrick Register | Detroit | (313) 931-1400 x48 |
| Michigan Boating Industries Association | Mr. Van W. Snider, Jr. | Livonia | (734) 261-0123 |
| Midwest Supply and Maintenance Co. | Ms. Lisa Cairns | Plymouth | (734) 459-6052 |
| Quality Metalcraft, Inc. | Ms. Debbie Darby | Livonia | (734) 261-6700 |
| Solutia, Inc. | Mr. Tony Kasab | Trenton | (734) 671-9472 |
| SQS, Inc. | Mr. Gene Cieply | Canton | (734) 459-3800 |
| Vico Products Company | Ms. April Klein | Plymouth | (734) 453-3777 |
| Visteon Automotive Systems - Corporate | Ms. Katie Cunningham | Plymouth | (734) 416-6918 |
| Visteon Automotive Systems - Sheldon | Mr. Christopher Start | Plymouth | (734) 451-9370 |
| Yazaki North America, Inc. | Mr. Alan Hunt | Canton | (734) 983-1210 |

Wexford County

| | | | |
|-----------------------------|--------------------|----------|----------------|
| Borg Warner Cooling Systems | Mr. Chris Stanley | Cadillac | (231) 779-7621 |
| Cadillac Renewable Energy | Mr. James Charles | Cadillac | (231) 779-8609 |
| Four Winns, Inc. | Ms. Krista Haapala | Cadillac | (231) 779-2355 |



This report describes the benefits and requirements of the Michigan Business Pollution Prevention Partnership (MBP3) program. The report has been distributed to various trade/professional organizations, state/local government, program partners and to industry leadership. For complete information on the MBP3 program including registration information, please contact:

The Michigan Business Pollution Prevention Partnership
Environmental Science & Services Division
(800) 662-9278
P.O. Box 30475
Lansing, Michigan 48909

www.michigan.gov/deq then Pollution Prevention - Business Partnerships
E-mail: spencejl@michigan.gov

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Michigan Department of Environmental Quality 

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