### A TOP TEN LIST OF ENVIRONMENTAL ACTION INSIDE THE HOME, AWAY FROM HOME, IN THE GARDEN

A Public Service of

#### THE CHURCHILL AREA ENVIRONMENTAL COUNCIL

2300 William Penn Highway Pittsburgh, PA 15235 2005
It is easy to feel overwhelmed and impotent in the face of global environmental problems. But real solutions start with the choices each of us makes in our daily lives.

#### AT HOME:

- 1. USE NON-TOXIC CLEANING PRODUCTS. These can be purchased at the East End Food Coop or Whole Foods and are starting to appear at traditional grocery stores. Numerous web sites give recipes for "old fashioned" cleaning methods, which are better for the environment, your health and your wallet. Do a "Google" search of "natural cleaning recipes" or try: sage.sedition.com/howto/green\_cleaning.html

  and littlepieces.com/naturalcleaning.htm
- 2. REDUCE "E-WASTE" DISCARDED ELECTRONICS.

  Decide whether you really need to replace something vs. upgrading or repairing it. Anticipate features you are likely to want over time in a PDA, cell phone, computer, etc. and buy them in that form now. Donate usable electronics to a non-profit organization or school. Recycle electronic equipment via Hi-Tech Scrap, N. Lexington and Meade Sts., in Point Breeze (412-731-5805) or Computers Hope in Point Breeze (412-860-9753). ucsusa.org/publications/green\_tips.cfm?publicationID=948 or CAEC "Household Waste" 2003\*.
- 3. PAINTING & REMODELING TIPS. Choose "low VOC" (volatile organic compound) paints. Water-based latex is better than oil based; "green seal label" paints are best. Clean brushes at an inside sink so the water goes to a treatment plant rather than outside where it will go to your yard, a storm sewer drain and ultimately into a stream, river or other body of water. Oil-based paints are hazardous waste and require special disposal. Watch for special Household Hazardous Waste collections swpahhw.org or call 412-488-7452. When planning major house remodeling contact the U.S. Green Building Council which certifies "green" contractors and practices usgbc.org/chapters
- 4. **BATTERIES.** Use rechargeable batteries whenever possible. Dispose of all batteries properly. They contain heavy metals that make them hazardous wastes. Radio Shack and Home Depot recycle rechargeable batteries from cameras, cell phones, cordless tools, et al. The E House Co. at 1511 East Carson St. (412-488-7455) accepts non-rechargeable (e.g. alkaline) batteries. Take car batteries to Tyke's Gulf on Greensburg Pike.
- 5. THROW-AWAYS and HAZARDOUS WASTE. Instead of one-use, "disposable" items buy refillable pens, mechanical pencils, razors, water and beverage bottles, etc. Take mercury thermometers to the Clack Health Center, Bldg. 7, 38<sup>th</sup> and Penn in Lawrenceville (weekdays).
- **6. PETS.** Keep cats indoors to protect them from disease and harm and to protect birds from them. Clean up after your dog (this is probably an ordinance in your community), especially on sidewalks and streets to keep wastes from entering storm water drains. Wash and brush dogs after trips and hikes to avoid introducing exotic/invasive seeds, parasites and other pests into your area.
- 7. CONSERVE WATER. Replace old toilets with low-flow models; the newest dual-flush type is much more effective than some of the earlier low-flow versions. Tips and suggestions for the bathroom, kitchen and laundry room can be found at: sage.sedition.com/howto/water-home.html or h2ouse.org
- 8. AIR CONDITIONING/HEATING/LIGHTING. Replace your old heating/ventilation/air conditioning (HVAC) system with a new, energy-efficient system. Keep your thermostat at 78° in the summer and 68° or lower in the winter. Clean system filters regularly. Replace incandescent light bulbs with fluorescent and compact fluorescent lamps. CAEC "Energy Efficient Lighting" 1994\*.
- 9. SAVE ENERGY IN THE KITCHEN. Use the smallest appropriate appliance (e.g. toaster oven vs. conventional oven). Microwave ovens often use less energy for the same job, such as heating water. Keep appliances clean; clean cook tops and ovens are more energy-efficient. Using glass or ceramic pans in the oven usually allows you to lower the temperature by 25 degrees. Other ideas can be found at: ucsusa.org/publications/green\_tips.cfm?publicationID=999
- **10. BUY ENERGY SAVING APPLIANCES.** EPA-certified "Energy Star" appliances use 10-50% less energy and water than standard models. Slightly higher purchase prices are recovered in the first few years through lower utility bills. For example, an Energy Star clothes washer uses 18-25 gallons of water (regular machines use 40+). Front loaders are more efficient than top loaders. Wash full loads only, using cold water for rinses. Minimize use of the clothes dryer sun drying is free!

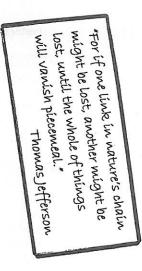
"Never doubt that a small group of thoughtfully committed citizens thoughtfully committed citizens thoughtfully committed indeed, it's can change the world. Indeed, it's the only thing that ever has."

The only thing that ever has."

The only thing that ever has."

"The environment is very important in the aspects of peace because when in the aspects of peace because when we destroy our resources and our resources we destroy our resources and our resources we destroy our resources we destroy our resources we destroy our resources and our resources we destroy wantation."

Wangari Maathai
Nobel Peace Prize winner, 2004



# AWAY FROM HOME:

- 1. RECYCLING. kinds), cans and glass (no pre-sorting). Used electronic products (computers, monitocan be placed in a bin inside the main entrance. You can donate whole cans of latex paint and most usable building materials. The UPS Store, 322 Mall Blvd., Monroeville accepts styrofoam, bubble wrap and other clean packing materials. There are bins for newspaper, magazines, catalogs, phone books, flattened corrugated cardboard, cereal box cardboard, white office paper, junk paper and mail, plastic (all connitionities at the curb, usually glass, metal cans and/or newspaper. However, you can recycle almost anything, anytime, at Construction Junction – 214 N. Lexington St. (corner of Meade just off Penn Ave.) in Point Breeze/Homewood (412-243-5025) RECYCLING. Larger communities are mandated by law to recycle several commodities at the curb, usually glass, metal cans and/or newspaper. However, Used electronic products (computers, monitors)
- N it reduces fuel economy by 20% or more. But, above 40mph AC is more fuel efficient than driving with windows open (due to aerodynamic drag). aqpartners.org antifreeze is a less toxic type. Use auto air conditioning judiciously. Under 40mph it reduces fuel economy by 20% or more. But, above 40mph AC is more fuel effici possible (senior citizens ride free during non rush hours with a special pass). Carpocombine trips and consider gas mileage and hybrid technology when shopping for a vehicle. Inflate tires properly (under inflation can waste 5% fuel) and tune-up the engine regularly. Avoid excessive idling and "jack rabbit" starts. Michelin Energy Tires combine many features to improve fuel efficiency and Prestone Lo-Tox TRANSPORTATION. Use public transportation like the East Busway if Carpool,
- bring for your groceries. Avoid excess packaging by buying in bulk. Organic products are worth considering for your health. Buy paper products made of recycled fiber SHOPPING. Reuse the paper or plastic bags from grocery stores; keep a supply in the trunk of your car. Or, use your own, long lasting, cloth and string mesh bags. Giant Eagle, Shop and Save and the East End Food Coop pay 5 cents for each bag you (e.g. Marcal toilet tissue is 75% recycled paper. r products made of recycled fiber Shop locally to cut down on driving.
- container or bring your own, reusable one. At the office use mugs instead of throwaw cups at the coffee machine. When barbecuing avoid charcoal briquettes which release or one of the new electric grills that can cut harmful emissions 94%! suspected carcinogens. Grill vegetables and lean meats using aluminum foil as a shield. Cook slowly and evenly to avoid excessive heating. Use charcoal substitutes, gas grills **EATING OUT.** Avoid styrofoam for take out or leftovers. Ask for a paper container or bring your own, reusable one. At the office use mugs instead of the throwaway
- 5 LITTER hiking trail that you use frequently and keep it litter-free. **LITTER.** Take a bag and gloves along on walks to pick up litter as you go. People are less likely to litter if they see a clean environment. Adopt a park or a section of
- water because it eventually enters our drinking supply. A current agreement with tEPA requires all communities in the ALCOSAN service area to eliminate water pollution from sewage, chemicals and other sources. Reduce the use of chemicals on your property and <u>never dump waste of any kind into storm drains</u> (e.g. motor oil, which can be taken to many gas stations, including Tykes Gulf on Greensburg Pike). untreated into our creeks and rivers. SEWERS. Everything that enters the storm drains on streets and roads flows Each of us must guard the purity of this storm A current agreement with the
- better done by car (preferably car pooling) or emissions from flights you book with them by retrofitting oil-burning boilers and water heaters in schools. betterworldclub.com/environment/carbon\_offsets.htm
  For flights over 500 miles emissions are comparable to driving. Shorter trips are of greenhouse gas per passenger into the atmosphere. Several web-friendly organizations offer to balance the emissions of air travel. For \$10 the non-profit americanforests.org/resources/ccc "American Forests" will plant 10 tree seedlings in a damaged forest on public land. An average tree can absorb about 26 pounds of carbon dioxide a year. AIR TRAVEL The average commercial flight in the US releases 1,800 pounds The "Better World Club" travel agency balances bus.
- skins, cat pelts or other products made from poached or endangered wild animals. native species. Empty water and debris from canoes and other equipment before heading home. When on vacation in other countries avoid buying ivory, tortoiseshell, coral, reptile bait into wetlands, waterways or storm drains. Those that may survive can pose a threat to **RECREATION.** Develop a "sense of place". Urather than bringing it from home. Never release pets, RECREATION. Use wood gathered near your campsite aquarium plants and fish or unused
- patrol to remove invasive plants (e.g. garlic mustard). Alert local officials to the presence of refractory invasives (e.g. Japanese knotweed), illegal dirt bikes or other each June), an Adopt-A-Highway team or a Rails to Trails chapter. maintenance is performed and funded. ruinous activities. groups, the River Sweep campaign (removes discarded objects from area streams COMMUNITY IMPROVEMENT. Follow up to be sure these problems are addressed and routine park Volunteer with community beautification Form a local park
- aggressive enforcement of environmental ordinances. reduce sprawl, judicious use of road salts, meetings (call updated ordinances on proper garbage/waste storage and disposal. BECOME rodents), pet licensing, leashing and cleanup. your municipal office AN ADVOCATE. for date and time). regular maintenance of sewer systems and Attend borough council or commissioner Make sure your borough has Encourage "smart zoning" to

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"Only in the last moment of human interpret have been singing about for the poets have been singing about for the poets have the delusion arisen that the people can fourish apart from the poets of poorld."

E.O. Wilson

modern society will find no solution"

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## MIN'THE GARDEN:

- up to 4' high. Add a little soil, agricultural lime and all-purpose fertilizer occasionally. Turn the pile with a pitchfork once or twice a season. Use the "finished" com 3-sided enclosure and alternate twigs, grass, as a soil additive or water saving mulch for plants. CAEC "How to Compost" 1991\*. COMPOST all garden waste and raw kitchen scraps, but not animal products bones, fat or pet waste). In a concealed part of your property construct a leaves and trimmings to build a loose pile Use the "finished" compost
- May 25 plant 2-4 tomato plants (buy disease-resistant varieties or start your own from seed in mid-March). Try something new each year (e.g. herbs). Your Organic Garden, Rodale Press, 1994 around the edge; Add lots of compost, preferably homemade and pesticide-free. animal repellant available at garden supply stores. CAEC "Recommendations for a Small Vegetable Garden" 1975\* TAN ORGANIC VEGETABLE GARDEN in a sunny corner. 6-8' high will deter deer. Or. try enraving water to be a sunny corner. sow loose-leaf lettuce seed (e.g. Black-seeded Simpson) behind the onions. Or, try spraying young plants with a non-toxic, egg/hot pepper in supply stores. Spade the soil to a depth of at least 12 inches. In early April plant onion sets After

that created them." Albert Einstein

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We cannot solve the problems we

- PRUNE TREES CORRECTLY to avoid spreading pathogens like oak wilt and natural character of the tree. For gardens of modest size select small trees such as redbud, dogwood, mountain maple. CAEC "Proper Trees for Small Properties" have the legal right to trim vegetation on their rights of way, often destroying the branches that can be reached from the ground. Employ professionals with proper equipment for larger jobs. Make cuts flush with the trunk, but just outside the bra collar (the swollen area at the base of the branch). Tree healing requires no furthe the dormant season, October - March. dogwood anthracnose, carried from tree to tree by bark insects. 9 www.ces.ncsu.edu/depts/hort/ Plant trees so their mature branches will not contact power lines. Remove dead, diseased or "in the way" "Proper Trees for Small Properties" Tree healing requires no further Prune only during Utilities branch
- water by hooking into a downspout. **gardners.com** Avoid over-fertilizing and chemical use, both of which contaminate water supplies during run-off and/or absorption into soil. Use ½ the recommended strength for fertilizer and never apply chemicals if rain is imminent. surface wetting is ineffective, wastes water and promotes disease. water by hooking into a downspout. gardners.com Avoid over-CONSERVE WATER IN THE GARDEN. Plant xerics (plants resistant to requiring plants in one part of the garden for special attention during droughts. Mulch plants with 3-4" of compost, shredded bark, chipped leaves or pine needles (for evergreens). drought). These include species that have thick, leathery, hairy, fuzzy, waxy or gray-colored foliage, e.g. Sedum, Yucca, yarrow, Artemesia, lamb's ears. Group water-If watering is needed, do it early in the morning, using a soaker hose Avoid peat moss and cypress mulch that may be cut and trucked from wild areas. You can collect rain-Frequent
- មា SOIL EROSION. If your property is sloped, use terracing, inward-slanting rock walls or rock garden designs. A 4-5" layer of mulch should cover all bare soil and be replenished as necessary until vegetation is established. Consider a small pond with mosquito-eating fish and oxygenating plants for a garden spot that is chronically wet buttonbush, perennials such as Astilbe, primrose, blue-flag iris and cinnamon, ostrich, sensitive ferns. If plants fail to thrive, get your soil tested for texture, mineral content and pH. Kits are for sale at the Allegheny County Extension Service, 400 N. Lexington St., Pittsburgh 15208 (412-473-2540). or soggy. Or, make a wetland garden using shrubs like meadow-sweet, woolly willow and
- 9 biodiversityproject.org locate them where cleanup is easy. Try safflower seed in the feeder; squirrels do not eat it but birds do. If rats become a problem discontinue feeding for a while. Provide a dependable, shallow source of water. To prevent mosquitoes change the water every 3-4 days and scrub the container with a stiff brush. Garden wildlife habitat ideas are at coral berry) and perennials (coral bells, black-eyed Susan, coneflower, bee balm). Feed birds to encourage loyalty to your property. Hummingbirds are voracious insect eaters; attract them with a simple, clean, sugar-water feeder (one-part sugar: 3 parts boiled water) from April thru October. Use squirrel proof feeders for other birds and ATTRACT PEST-EATING BIRDS. bearing trees (hawthorn, hornbeam, Amer. hazelnut), shrubs (winterberry, 9 audubon.org/bird/at\_home/wildlife.html Hummingbirds are voracious insect Plant a variety of native, seed/fruitholly grape
- the company offers a choice of safe, <u>narrow-purpose pesticides</u> CAEC "Pests in Perspective" 1992\*; <u>gardensalive.com</u> (513 glyphosate ("Round-Up") should be last resorts. If you employ heavy mulching. around vegetables to repel nematodes. For weed control, try hand removal followed (azadirachtin), baking soda or Bacillus subtilis ("Serenade"). sulfate ("Black Leaf 40"), pyrethrum and rotenone. Safe fungicides are "neem" Leave harmless caterpillars and larvae to mature into beautiful butterflies and colorful beetles. Spray aphids (plant lice) with a blast of water from a garden hose. Dust with Bt ("Dipel") for your property with a jar of soapy water, removing pest insects to the container. Only 2% of insect species leaf-chewing larvae like cabbage looper. recognize and destroy bagworms, hornworms, Japanese beetles, gypsy moth and tent worms USE PESTICICES AND HERBICIDES WISELY AND SPARINGLY. Seed growth hormone that kills <u>broad-leaf species</u> like dandelion and chickweed but <u>not</u> Seed germination inhibitors like dithiopyr ("Preen") and "kill all" products like Severe problems may require spraying with 2,4 D ("Weed-B-Gone" "pests" and many are useful pollinators or predators. gardensalive.com (513-354-1483) Try insecticidal soap or botanicals like nicotine Plant marigolds and sage for specific problems. a lawn service Learn to Walk

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- (birches, oaks) and be sure the plants you buy are nursery-propagated, NOT taken from the wild. Order "Landscaping for Wildlife" from the Wild Resources Conservation Fund, POB 8764, Harrisburg PA 17105 \$20. shape are compatible with the scale of your garden space. Avoid forest canopy trees like oak, beech, tulip poplar, hemlock and spruce. Select smaller species like sweet bay magnolia, American holly, witch hazel, serviceberry. CAEC "Proper Trees for Small bills and reduce CO2 in the atmosphere. evergreens on the north and west sides will deflect cold winds. side of your property can shield the house from summer sun. winterberry, viburnum and spicebush; Properties" 2001\*. for wildlife". Plant a diversity of tree species (preferably native) whose adult size and DIVERSIFY YOUR GARDEN. berry, viburnum and spicebush; finish with deer resistant perennials, especially Cluster plantings within curved or irregular borders. A shade tree on the south Add an under story of native shrubs, including mountain laurel Avoid plants that attract diseases or pests Convert your property into a safe "corridor Staggered plantings of Both will lower utility sweet bay
- favors invasives; use compost instead. Send for the brochures "Invasive Plants in Pa." and "Landscaping with Native Plants" from the DCNR Bureau of Forestry, POB 8552, Harrisburg PA 17105. Useful web sites include the W. Pa. Conservancy SylvaniaNatives.com (412-596-4989) and the Audubon Native Plant Nursery (412-963-6100) are local sources. Avoid plants described as "quick spreading" or "al to grow anywhere". Get to know and recognize the top ten invasives in our area: tree U.S. Government Plant Database plants.usda.gov paconserve.org, the Brooklyn Botanical Garden bbg.org/gar2/pestalerts or the judicious, targeted use of herbicides. Do NOT allow them to set seed. Do not disturb natural areas. Invasives thrive on bare or damaged soils. Over-fertilizing also sell these invasives. Remove invasives or prevent their spread by frequent pruning illustrated web site: nps.gov/plants/alien/fact.htm. Ask local garden stores NOT to knotweed, *Phragmites*, goutweed, Japanese stiltgrass and mile-a-minute vine. For help contact your local garden club, the Botanical Society of W. Pa. or the fully heaven, garlic mustard, multiflora rose, purple loosestrife, Canada thistle, Japanese become aggressive pests, displacing and even exterminating valuable native species. Plant native species whenever possible (e.g. red maple instead of Norway maple). ELIMINATE INVASIVE SPECIES. Avoid plants described as "quick spreading" or "able A small percentage of alien plants can
- 10. LAWN CARE. "Issue Archive," box, then click May'05) or call (510-524-2567). ("Doom") as directed on the package to eliminate grubs over 2-4 years. "The Chemical Free Lawn", Warren Schultz, Rodale Press, 1989. Free information at: BIRC, POB 7414, Berkeley CA 94707 birc.org and nrdc.org/thisgreenlife (go to the part of your lawn to a wildflower meadow, a curved bed of nut and berry-bearing shrubs or a place for xeric ground cover plants like Sedum, Tiarella (foam flower) and saxifrage keep grass 3" long to shade roots, provide natural fertilizer and retain moisture. A sharpspreading well-rotted manure, compost or organic fertilizer in spring and fall. Water Deeply (1"/week in early morning during droughts). Better yet, do not water. The lawn will turn brown but a good rain will "green up" most turf. "Mow high and let it lie"; If you must retain some lawn, manage it organically. Develop healthy soil (pH 6.5-7), energy and water and adds harmful chemicals to our environment. Aerate packed soil (rental aerators are available at garden centers). seed set or spot treat with 10% vinegar or "Weed-B-Gone". Dust v Aerate packed soil (rental aerators are available at bladed reel mower is best; a rechargeable electric mulching mower is next best Consider minimizing the size of your lawn; its care wastes Tiarella (foam flower) and saxifrage Dust with milky spore Hand weed before
- \*This prior Churchill Area Environmental Council advisory is available at your municipal office or send a legal size, stamped, addressed envelope to C.A.E.C., c/o Churchill Borough, 2300 Wm. Penn Highway, Pittsburgh 15235.

#FOR the first time in the history of "FOR the first time in the history of the world, every human being is now subject to contact with dannow subject to contact with dangerous chemicals, from the mogerous chemicals, from the death."

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The long fight to save wild beauty.

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