

# WHAT TO DO?

While energy efficient night lighting does exist within Milwaukee County, you can make a difference on several levels.

Install energy efficient lighting at your home or encourage its use at your workplace. Light spilled skyward is wasted light - it does not increase safety to dump light skyward. Well shielded, energy efficient lighting puts wattage to good use by lighting the area beneath light fixtures.

Put your outdoor lighting on timers or motion detectors so that you have light when you need it.

Petition your alder-person, county representative and others for shielded lighting fixtures for commercial and industrial sites. Many communities in the western United States and elsewhere have dark sky ordinances which encourage businesses and city lighting to exist as shielded light fixtures and of specific wattage, or to burn for specific times. Remember preserving light means saving energy, and this translates to saving money as well.

For more information about dark-sky lighting, contact:

**International Dark-Sky Association**  
3225 North First Ave, Tucson, AZ 85719  
www.darksky.org

## LOCALLY

Look for dark-sky lighting at several sites throughout Milwaukee County. Near the airport along Interstate 94 north, and towards downtown. The University of Wisconsin Milwaukee campus and other locations have some excellent examples of shielded light fixtures.

The Wehr Astronomical Society (W.A.S.) has approached the City of Franklin regarding shielded lighting to preserve the dark-sky conditions of Froemming Park, location of the W.A.S. Observatory. Contact:

**Wehr Astronomical Society**  
9701 W. College Ave, Franklin, WI 53132  
414/425-8550  
www.execcp.com/arguma/astro/was.html



Source: National Geophysical Data Center, National Oceanic and Atmospheric Association (NOAA)  
Data source: Defense Meteorological Satellite Program 1996

## POPULATION STATISTICS

The most recent U.S. census (1990) indicates that Milwaukee County was home to some 959,275 people. Figures show that Milwaukee County's population had grown by nearly 20,000 people from 1985 to 1990, but new estimates indicate that from 1990-1997 it had diminished by 50,335 residents. Interestingly, neighboring counties experienced population growth - and that this trend continues as more people continue to move into surrounding suburban and sub-rural areas, further stressing natural resources in and around those regions.

Data from: SEWRPC, 1990 U.S. Census Bureau records and yearly estimates.

## THE POPULATION OF MILWAUKEE COUNTY

Census data from 1990 reveals a community of people living close together in some places, and sparse population density in others. (Each dot on this map represents 50 people.) Notice the relative lack of people in the suburbs to the northeast and southern regions of the county.

Some of these areas have specific zoning which determines the number of residential units per land area. While this can be good for the preservation of green space, it makes living resources harder to reach, increasing energy and automobile use. This in turn can strain resources, potentially degrading the environment further.

"The Sun's rim dips; the stars rush out:  
At one stride comes the dark..."  
from *The Aeneid* of the Ancient Mariner  
—Samuel Taylor Coleridge

## BOUNDARIES OF SLOPE, BASINS OF WATER

The boundaries of Milwaukee County, although determined by the history and politics of the area, are (aside from the edge determined by the shoreline of Lake Michigan) without regard for the geography of the region.

This is especially obvious when looking at the catch basins or watersheds which directly effect the population of Milwaukee County.

11 Major watersheds drain southeastern Wisconsin, of these 5 directly effect Milwaukee County and its Lake Michigan Shoreline.

A watershed is the drainage system of a specific place. When it rains, surface water eventually flows downhill first to streams, to rivers, and finally, here, to Lake Michigan itself.

This elaborate system of connecting passages brings not only fresh water, but sediments, toxins, animal waste and inorganic materials downstream to Lake Michigan. The health of a watershed is determined by how quickly it drains of water, if wetlands exist to absorb and filter materials, and how much water its soils can absorb. The construction of homes, the laying of concrete, agricultural use, and the effects of industry relate to the health of drainage basins and the water that leaves them. The quality of water in the region has a direct effect on the wildlife which live in, on or near water here.

Because nearly all of Milwaukee County's water comes directly from Lake Michigan, we drink what we leave to drain into our streets, streams, creeks, and rivers.

Animal waste and pesticide and herbicide use from non-point sources such as farmlands and yards, runoff from parking lot surfaces, pet waste dumped into storm sewers, raw sewage which overflows into streams and rivers, toxic materials released through industry and commercial activity; all contribute to the quality of the water we drink.

In Milwaukee County land use has almost 5% of the total land area of 1,721,113 acres remaining unaltered in 1985.

## MONITORING and RESEARCH

Within Milwaukee County and the surrounding watershed communities, thousands of high school and middle school students have been involved in assessing the quality of water flowing in the Milwaukee River. Called **Testing the Waters**, students collect samples twice a year from assigned sites, they then analyze the water for physical, chemical and biological indicators, to arrive at a **Water Quality Index**. These results are then coordinated through Project Director at Riveredge Nature Center. Not meant to serve as scientific benchmarking, the results, collected since 1990, indicate a slow but continuous improvement in water quality.

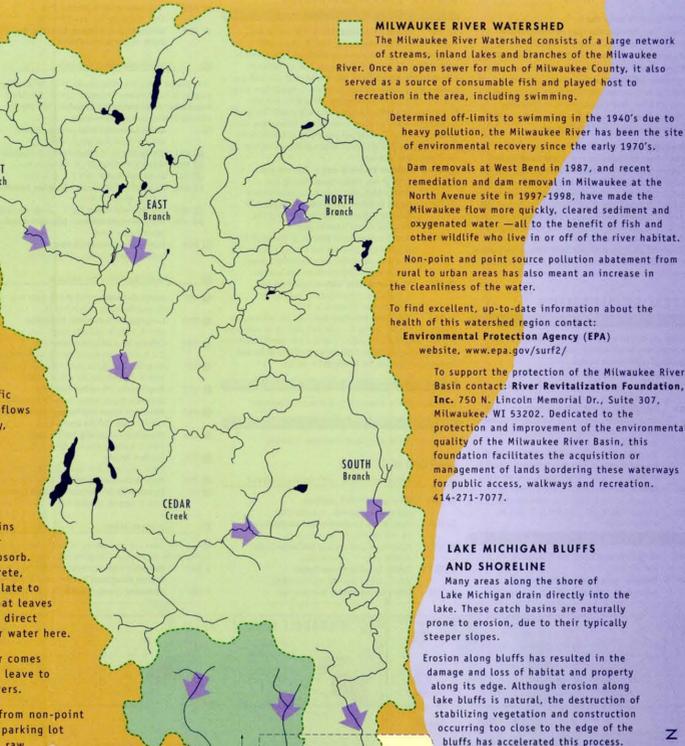
**Testing the Waters**  
Project Director: Riveredge Nature Center  
P.O. Box 26, 4458 West Hawthorne, Newburg, WI 53006  
tel: 414/375-2715 fax: 414/375-2714  
call for website address, site under construction.

Lake Michigan waters will be monitored throughout the year after specified rainfall events through the EPA's volunteer program, **EMPACT**. 13 locations in Milwaukee and Racine County have been selected for monitoring **Community Recreational Water Risk**. (see reverse-side map for locations)

**EMPACT**  
City of Milwaukee Health Department tel: 414/375-2715  
www.epa.gov/empact/wisconsin.htm

Additional information about river cleanup:  
**Milwaukee Cleanse River Project**  
City of Milwaukee Department of Public Works  
841 N. Broadway, Rm. 820 Milwaukee, WI 53202  
tel: 414/286-8162

**Great Lakes Water Institute** 600 E. Greenfield Ave., Milwaukee, WI 53204. A UW System Research and Education Facility operated by the Graduate School of the University of Wisconsin Milwaukee (UWM). Involved in aquatic and environmental research and monitoring of Lake Michigan and the Great Lakes Basin. Home of the **Center for Great Lakes Studies**. Aqua culture Institute and the **NIHNS Marine and Freshwater Biomedical Sciences Center**. 414-382-1700  
www.uwm.edu/Dept/GLWI



**MILWAUKEE RIVER WATERSHED**  
The Milwaukee River Watershed consists of a large network of streams, inland lakes and branches of the Milwaukee River. Once an open sewer for much of Milwaukee County, it also served as a source of consumable fish and played host to recreation in the area, including swimming.

Determined off-limits to swimming in the 1940's due to heavy pollution, the Milwaukee River has been the site of environmental recovery since the early 1970's.

Dam removals at West Bend in 1987, and recent remediation and dam removal in Milwaukee at the North Avenue site in 1997-1998, have made the Milwaukee flow more quickly, cleared sediment and oxygenated water—all to the benefit of fish and other wildlife who live in or off of the river habitat.

Non-point and point source pollution abatement from rural to urban areas has also meant an increase in the cleanliness of the water.

To find excellent, up-to-date information about the health of this watershed region, contact:  
**Environmental Protection Agency (EPA)**  
website, www.epa.gov/surf2/

To support the protection of the Milwaukee River Basin, contact: **River Restoration Foundation, Inc.** 750 N. Lincoln Memorial Dr., Suite 307, Milwaukee, WI 53202. Dedicated to the protection and improvement of the environmental quality of the Milwaukee River Basin, this foundation facilitates the acquisition or management of lands bordering these watersheds for public access, walkways and recreation. 414-271-7077.

**LAKE MICHIGAN BLUFFS AND SHORELINE**  
Many areas along the shore of Lake Michigan drain directly into the lake. These catch basins are naturally prone to erosion, due to their typically steeper slopes.

Erosion along bluffs has resulted in the damage and loss of habitat and property along its edge. Although erosion along lake bluffs is natural, the destruction of stabilizing vegetation and construction occurring too close to the edge of the bluffs has accelerated this process.

Heavy rains within recent years have also caused some areas of shoreline to erode dramatically.

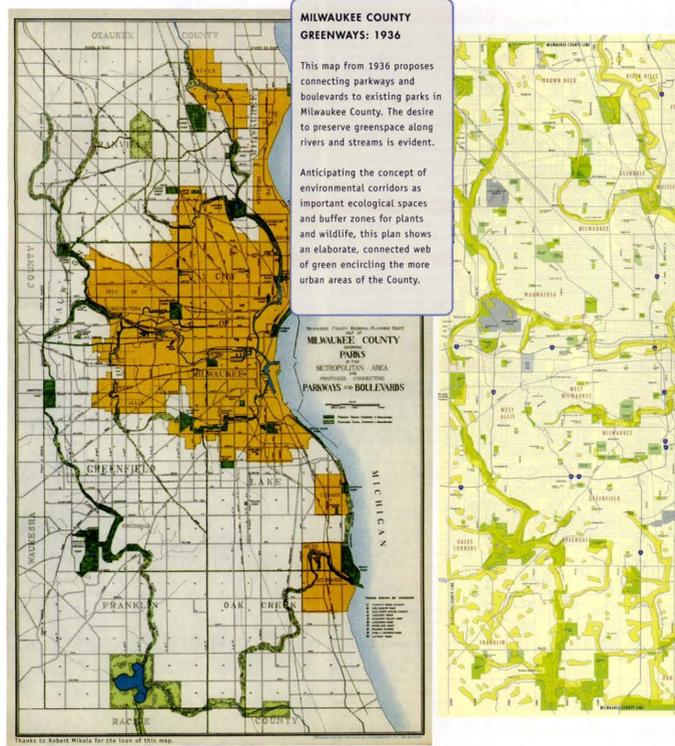
For more information about the condition of Lake Michigan shoreline in Milwaukee County see: **Southeastern Wisconsin Regional Planning Commission (SEWRPC's)** Newsletter Vol.38 No.1 Jan/Feb 1998

To help clean up Milwaukee area beaches, join the yearly **Beach Sweep**, sponsored by the **Center for Marine Conservation**. Contact: **Milwaukee Health Department**, 414-285-5709 or [www.beachhealth.erusg.gov](http://www.beachhealth.erusg.gov). Debris will be documented and reported.

**KINNICKINNIC RIVER WATERSHED**  
Flowing through a high concentration of industrial sites, the Kinnickinnic River, like the Menomonee, has been controlled with concrete channelization in some areas, making it a flood zone during heavy rains.

**OAK CREEK WATERSHED**  
According to EPA standards the Oak Creek watershed is cleaner than some watersheds within the region. It drains through a region with extensive parklands and less populated areas.

**ROOT RIVER WATERSHED**  
Covering a large area of mixed use, the Root River watershed is prone to flooding when heavy rains fall. Traveling through a region of developed floodplains, it too illustrates the effects of human development on such an area. This watershed is currently being mapped by the **Friends of the Root River** @ 414-632-6440.



This map from 1936 proposes connecting parkways and boulevards to existing parks in Milwaukee County. The desire to preserve green space along rivers and streams is evident.

Anticipating the concept of environmental corridors as important ecological spaces and buffer zones for plants and wildlife, this plan shows an elaborate, connected web of green excelling the more urban areas of the County.

**MILWAUKEE COUNTY GREENWAYS: 1936**  
This map from 1936 proposes connecting parkways and boulevards to existing parks in Milwaukee County. The desire to preserve green space along rivers and streams is evident.

**Information Resources**  
Local Resources listed here often hold site related events. Contact them for more information. Also see the front side for additional site-specific resources. Note: This is not meant to be an all-inclusive listing.

- ♻️ **recycle/reuse/water recycling resources**
- ♻️ City of Cudahy Recycling/Curbide pickup, 414-769-2725
- ♻️ City of Franklin Recycling/Curbide pickup, 414-768-8075
- ♻️ City of Glendale Recycling/Curbide pickup, 414-228-1745
- ♻️ City of Milwaukee Recycling/Curbide pickup, 414-286-2355
- ♻️ City of Saint Francis Recycling/Curbide pickup, 414-350-8213
- ♻️ City of Shorewood Recycling/Curbide pickup, 414-963-4999
- ♻️ City of West Allis Recycling/Curbide pickup, 414-256-8290
- ♻️ Village of Bayside Recycling/Curbide pickup only, 414-679-0860
- ♻️ Village of Hales Corners Recycling/Curbide pickup, 414-351-8811
- ♻️ Village of River Hills Recycling/Curbide pickup, 414-350-8213
- ♻️ Village of Shorewood Recycling/Curbide pickup, 414-963-4999
- ♻️ Village of West Milwaukee Recycling/Curbide pickup, 414-645-6238
- ♻️ Village of Whitefish Bay Recycling/Curbide pickup, 414-962-6690
- ♻️ **BE SMART** waste reduction efforts. Offers information and resources for consumers and industry to reduce waste. Southeast Wisconsin Waste Reduction Coalition, Waukesha County Department of Parks and Land Use, 1320 Pawnee Road, RM 260, Waukesha, WI 53188, 414-272-3334, www.beamart.org.
- ♻️ **Green BUY Guide** Because buying recycled is often the least considered part of closing the recycling loop, this excellent pocket guide indicates where to buy products which use recycled materials. Published in 1997 by REC Systems of Wisconsin, P.O. Box 772, East Troy, WI 53120.
- ♻️ **WASTE CAP Wisconsin** 2647 N. Stowell Ave., Milwaukee, WI 53211-4299  
414-961-1100 www.environmental.org/wastecap-wi

- ♻️ **Business Materials Exchange of Wisconsin** www.wmte.com/index.html
- ♻️ **University of WI, Milwaukee, Center for By-Products Utilization Research**  
Facility to develop new uses for industrial by-products. 414-229-6696

- ♻️ **alternative energy resources**
- ♻️ **University of Milwaukee, Wisconsin Center for Alternative Fuels**  
Testing Facility 1150 Alois St., Milwaukee, WI 53201 414-229-3881.

- ♻️ **green design/eco-design/historical resources**
- ♻️ **2040 / Getting There: Alternatives to Sprawl in Southeastern Wisconsin** Milwaukee is changing rapidly. A land use planning proposal/projection has been developed through **Citizens for a Better Environment**. Call 414-271-7280 for a copy or see it at [www.cbeonline.com](http://www.cbeonline.com)
- ♻️ **Wisconsin Green Building Alliance (WGBA)** exists to promote the development of ecologically sustainable practices within the built environment in Wisconsin. They publish **greenpage**, a quarterly newsletter, produce a resource guide and hold an annual green building conference. Contact: **WGBA** P.O. Box 11067, Milwaukee, WI 53211-0067, 414-577-1015.

- ♻️ **green information/educational resources**
- ♻️ **Milwaukee County University of Wisconsin Extension (UWEX) Office** 130 S. 70th Street, West Allis. Hours: 8:00 - 4:30 53214 414-475-2200 Information re: the urban habitat, gardening techniques, oil recycling, lawn and plant care, etc.. An excellent resource.
- ♻️ **Outpost Exchange**, the Outpost's monthly publication, 414-964-7389.
- ♻️ **WISCONSINE** www.wisconsinline.com A community information website featuring an interactive database of Wisconsin events and attractions. Internet host of the Milwaukee Green Map Project. 414-229-1515
- ♻️ **C. Beiborn Consulting** 2647 N. Stowell Ave., Milwaukee, WI 53211, 414-332-4149
- ♻️ **Nature in the Parks** 2013 W. Kaskov Ave., Oak Creek, WI 53154 Environmental Education in Milwaukee County Parks. Trained naturalists will share their knowledge

## GREENSPACE, PARKLANDS AND ENVIRONMENTAL CORRIDORS

Like any natural area, individual greenways and parks serve an ecological function simply because they often protect natural areas. But their real strength is evident when they are seen as a system of interconnected passageways, barriers and filters for a variety of animal and plant life. Especially important are green spaces adjacent to rivers and streams. Called riparian corridors, they often include a diversity of habitats—aquatic, riparian, and upland—within a small area.

This web of green passageways and connected islands can be seen in this current map of Milwaukee County. Here the base map shows the **parklands and larger green spaces** (including cemeteries) found throughout Milwaukee County. Superimposed is a complex of yellow markings which roughly designate **environmental corridors** as determined by the 1997 assessment of southeast Wisconsin by the Southeastern Wisconsin Regional Planning Commission (SEWRPC).

SEWRPC designates environmental corridors as those "areas in the Region in which concentrations of natural resource elements occur." These natural resource elements include: Lakes, rivers and streams, associated shorelands and floodlands, wetlands, woodlands, prairie, wildlife habitat areas, existing parks and open space, natural and scenic areas and vistas.

**Southeastern Wisconsin Regional Planning Commission**  
Old Courthouse P.O. Box 1607  
Waukesha, WI 53187-1607  
tel: 414/547-6721  
fax: 414/547-1103

An early pioneer of green mapping and environmental corridor understanding is Philip H. Lewis, Jr. See his book:  
**Tomorrow by Design: A Regional Design Process for Sustainability**

- ♻️ **Wisconsin Partners for Clean Air** P.O. Box 12436, Milwaukee, WI 53212 A coalition of businesses, community organizations, schools, government agencies and citizens committed to the voluntary improvement of air quality in southeast Wisconsin through action, education and economic commitment. Call the Department of Natural Resources, 414-263-8653 or 1-800-362-9472.
- ♻️ **Childhood Lead Poisoning Prevention Program** Contact the City of Milwaukee Department of Health, 414-286-8028, or the **City of Milwaukee Health Authority's Lead-Based Paint Hazard Control** program to provide lead paint encapsulation @ 414-286-5681.

- ♻️ **Cultural/museum/world music sites** See map on reverse for additional sites.
- ♻️ **American Geographical Society Collection of Golda Meir Library** University of Wisconsin-Milwaukee, Milwaukee, WI 53211, 414-229-6282 www.uwm.edu
- ♻️ **Bradley Family Foundation Sculpture Gardens** 2145 W. Brown Deer Rd., Milwaukee, WI 53217, 414-276-6840
- ♻️ **Charles Allis Art Museum** 1801 N. Prospect Ave., Milwaukee, WI 53202, 414-278-8295
- ♻️ **Patrick and Beatrice Haggerty Museum of Art** Marquette University campus, 330 N. 13th St., Milwaukee, WI 53233, 414-286-7446 www.uwm.edu/haggerty
- ♻️ **INOVA** University of Wisconsin-Milwaukee Institute of Visual Arts, Vogel Hall, 3253 N. Downer Ave., Milwaukee, WI 53211, 414-229-6243 www.uwm.edu
- ♻️ **Villa Terrace Decorative Arts Museum** 2220 N. Terrace Ave., Milwaukee, WI 53202, 414-271-3656
- ♻️ **Wisconsin Black Holocaust Museum** 2233 N. Fourth St., Milwaukee, WI 53212, 414-264-2500
- ♻️ **Wisconsin Black Historical Society and Museum** 2620 W. Center St., Milwaukee, WI 53206, 414-372-7677

- ♻️ **DOWNTOWN CULTURAL SITES** are located on the map below. See the reverse side and other sources for more information about additional downtown cultural sites.
- ♻️ **400 Betty Brim Children's Museum** 929 E. Wisconsin Ave., Wisconsin Ave., 414-291-0888 www.bbcmilwaukee.com
- ♻️ **401 Discovery World Museum of Science, Economics & Technology** 720 W. Wells St., 414-765-0777 www.discoveryworld.com
- ♻️ **402 Humphrey JMAX Dome Theater** 710 W. Wells St., 414-319-4629
- ♻️ **403 Maier Festival Park** 200 Harbor Dr., 414-273-2680
- ♻️ **404 Marcus Center for the Performing Arts** 929 N. Water St., 414-273-2787
- ♻️ **405 Milwaukee Art Museum** 750 N. Lincoln Memorial Dr., 414-224-3200 www.mam.org
- ♻️ **406 Wisconsin County Historical Center** 910 N. Old World Third St., 414-273-8288
- ♻️ **407 Wisconsin Public Library** 614 W. Wisconsin Ave., 414-286-3000 www.wpl.org
- ♻️ **408 Milwaukee Public Museum** 800 West Wells St., 414-278-2702 www.mpm.edu

- ♻️ **agricultural/natural landscaping resources**
- ♻️ **UW Extension Urban Agriculture Program** University of Wisconsin Extension, State Fair Youth Center, 640 South 94th Street, Milwaukee, WI 53214-1438, provides rental services and coordination of Milwaukee County Community Garden plots. Call 414-290-2495. Note: Garden plot locations and availability change yearly.
- ♻️ **Ecotee Landscaping** 2201 E. Jarvis St., Milwaukee, WI 531 414-962-2703
- ♻️ **Genie Landscaping** 2720 N. 45th St., Milwaukee, WI 414-444-3200
- ♻️ **R-Landscape Design and Consulting** 1337 S. 114th St., 414-771-3392

- ♻️ **watershed protection/tree planting resources**
- ♻️ **Lake Michigan Federation** 220 S. State St., 2108, Chicago IL 60604 312-539-8838 www.lakemichigan.org
- ♻️ **Greening Milwaukee** 1150 E. Brady St., Milwaukee WI 53202, 414-276-8722  
A community resource which enables residents of Milwaukee County to replant and steward a healthy tree canopy. Greening Milwaukee provides education, training and trees to citizens and organizations who wish to enjoy the economic and quality of life improvements trees can provide.

- ♻️ **public transportation/bicycling resources**
- ♻️ **Waukesha Metro** 2311 Badger Dr., Waukesha WI 53188 414-524-3636
- ♻️ **The Bikesmiths** 2885 N. Murray Ave., 414-332-1330
- ♻️ **Wheel and Spocket** 695 N. Port Washington Rd., 414-247-8100
- ♻️ **Wheel and Spocket** 572 S. 108th St., 414-529-6600
- ♻️ **Wheel and Spocket** 13925 W. Capitol Dr., 414-789-0700
- ♻️ **Wheel and Spocket** 1001 Milwaukee Ave., 414-762-6000
- ♻️ **Rainbow Jersey** 2420 E. Capitol Dr., 414-961-1110
- ♻️ **Riverwest Workers Food Coop** 414-777-3978
- ♻️ **Bay View Bicycle Club** 1201 S. Oklahoma Ave., Milwaukee WI 53207 414-299-0317
- ♻️ **Bicycle Federation of Wisconsin** 608-251-4456
- ♻️ **Cream City Bicycling Club** Box 984, Milwaukee WI 53201 414-299-9398
- ♻️ **Wisconsin State Bicycle Federation** P.O. Box 1324, Madison, WI 53701 608-251-4456

- ♻️ **food resources**
- ♻️ **Hunger Task Force** 201 S. Hawley Ct., 414-777-0483
- ♻️ **Riverwest Workers Food Coop** 414-777-3978

- ♻️ **redevelopment resources**
- ♻️ **The Menomonee River Valley** as a whole is undergoing remediation and redevelopment plans. To get involved in shaping these re-natural lands contact: **Milwaukee Department of City Development** @ 414-286-5616

- ♻️ **pollution monitoring resources**
- ♻️ **Great Lakes Water Quality Network** www.seagrant.wisc.edu/advisory/
- ♻️ **Pollution Prevention Partnership** P.O. Box 13, Milwaukee, WI 53201, 414-486-1613
- ♻️ **Air Quality Index Line** Find out the current quality of Milwaukee's air by calling 414-263-8741 or 1-800-242-4727.



In an effort to restructure a part of the City of Milwaukee, the **City of Milwaukee** is considering the **Parkway** area for renovation. The **Parkway** area is located on the map below.

The **Menomonee River Valley** is undergoing remediation, with planning underway for sustainable development.

## THE MILWAUKEE GREEN MAP

Mapping Milwaukee's sustainable resources

What is Milwaukee's Green Map? Milwaukee's Green Map locates and makes visible ecologically and environmentally significant sites throughout Milwaukee County. The map provides a single vision of resources by showing the connections between natural and cultural features which, when combined, establish Milwaukee's progress towards a more sustainable place. Milwaukee's Green Map shows eco-resources within our region.

How is a "green map" made? Milwaukee's Green Map uses a standardized set of over 100 icons common to the Green Map System in use worldwide. Each icon represents one piece of a community. Categories include natural sites, renewable resources, and green economic development. Specific icons identify community gardens, recycling locations, greenways, landfills, and organic produce suppliers, to name a few. Some of these icons look like this:



First developed by Wendy Braver in New York City, the Green Map System is currently being used in over 104 cities in 30 countries around the world. To find out more about the green map system visit their website at [www.greenmap.org](http://www.greenmap.org)

Although most green maps highlight a city, it was decided early on to include all of Milwaukee County because of the close relationship between the city and county in regard to resources and infrastructure management.

Milwaukee sites were selected from various sources. Like other Green Maps, Milwaukee's Green Map highlights green systems and sites. This map is only the first of the Milwaukee Green Maps, and is expected to be remade as the community involvement and awareness changes.

Why make a green map for Milwaukee? With the completion of this map, it is hoped that a benchmark will be set to understand where we are in relation to the efforts and effects of many people on our environment. As a visual tool, it shows at a glance where the community has placed its resources for a more livable and sustainable place. It also helps with imagining the future, as a device to look forward, consider and act in a manner which can shape how we live. Site specific in practice, it provides an opportunity for local partnerships, information sharing and cooperation to physically impact where and how we live. A project for the future, Milwaukee's Green Map can inspire us to become a positive force in changing where we live. —a powerful tool for imagining a greener future for our home place.

As Milwaukee's first bioregional map of green resources, activities, people and practices, the Milwaukee Green Map serves as an important benchmark to recognizing current green practices and imagining future growth.

## Where is Milwaukee?

Milwaukee is found in the northern hemisphere, on the North American continent, within the United States, in the state of Wisconsin. As a measure of its latitude, all the stars from here appear to spin around the pole star which sits at 42° 21' above the northern horizon. At 87° 50' 15" W Longitude, Milwaukee's clocks are set to Central Standard Time and, during certain months, to Central Daylight Time.



Water surrounds Milwaukee County. The Menomonee River runs in from its western edge, the Milwaukee River drains down through the neighboring counties to the north. To the south, the drainage basin of the Root River carries its water away. The eastern edge is described by Lake Michigan. Fish are here, stand in the Milwaukee River and watch as fish strike and swim. Tainted with toxins but still here, and they are returning through open dams and fast water. We drink Lake Michigan. We take its water, clean it, use it, pour it away, clean it again and return it.

Milwaukee County has a share of green and open space. These are both managed and wild landscapes, forgotten places and places remembered so much they are overused. This landscape, edged by people and industry, consists of healthy areas and those overrun by invasive plants. Pushed and used by everyone, in some forgotten places, the green spaces push back.

This pushing and pulling is what makes this urban place. Peregrine falcons nest on power plant stacks. A concrete riverbed is torn up and becomes rock and mud. People build homes and roads and industry and farms and dump trash and waste and cover it up and uncover it later and slip it away and clean the soil and protect the groundwater and discover new land. This is new.

Like all cities, people drive trucks and cars and bring with them noise and waste. Like all cities people walk to work and find what they need nearby. They grow vegetables in their backyards, they ride bikes and buses to work and make a place for themselves. Some dream of light rail.

People here are thrifty. They see a great bargain in reusing things, in rummage sales and recycling. They make garbage and throw it out and someone else finds a use for it. This is not new.

Here, people imagine a community and work to realize it. People find their place, for now and live in it. All the while we travel along, in this same place to somewhere imagined, ahead.

What place is Milwaukee? Milwaukee is located to the west of the great freshwater Lake Michigan, on a drainage basin formed by ancient glaciers. The interplay of marshland and the cultivation of earth.

An interstate system of highways meets here, then spreads to the west, south and north. People live here and travel through from other places. Commercial highways over the lake or across the western counties. From the air, in spring and summer, trees obscure the view below, hiding streets, industrial backyards and highways.

Birds rest as they migrate north and south, traveling through passageways over water and land. At night, geese reflect the wasted

## THANK YOU:

- Leslie Bellavance
- Fred Bauer and AAA Sign Co. Inc.
- Wendy Braver, Modern World Design
- Tanya Bredhoff
- Diane Buck
- Pat Cassillo and students of Riverside University High School
- Terrie Cooper
- Patricia Day, Digital Reference Librarian,
- AGS Collection, UW-Golda Meir Library
- Division of Academic Affairs,
- University of Wisconsin, Milwaukee (UWM)
- Ken Dunn
- Dennis Falck - WISCONSINE
- Donna Geinert Schenstrom
- Mark Helmer
- Liz Heron
- Tosca Hoffman
- Angie Jaekman
- Terry Johnson
- Judy Lindquist
- Paul Mancuso
- Milwaukee County Department of Parks, Recreation and Culture
- Susan Mudd, Citizens for a Better Environment
- Ryan Reichard
- Brian Reilly
- Rhoda Sherwood
- Sustainable Milwaukee
- Chris Thies, Milwaukee County Transit System
- The Park People
- Olmedo Varela and the
- UWM Center for Urban Initiatives and Research

A special thanks to Harry Franke and the Milwaukee Foundation's Harry F. and Mary Franke Idea Fund, for funds to develop the Milwaukee Green Map.

...and all those who shared information, encouragement, time and ideas.

This map is dedicated to my parents, Joseph and Cornelia Grosse, who first helped me understand the importance of place.

Thank you...it's finally the knowledge that call up something in the land we recognize and respond to. It gives us a sense of place and a sense of community. Both are indispensable to a state of well-being, an individual's and a country's.

from *The American Geographies*—Barry Lopez

## WASTE AND WATERSHEDS

WHAT IS THIS MAP? Milwaukee's Green Map identifies many environmental or ecologically significant sites throughout Milwaukee County.

The map provides a single vision of resources by showing the connections between natural, built and cultural resources which, when combined, establish Milwaukee's progress towards sustainability. As Milwaukee's first bioregional map of green resources, activities, people and practices, the Milwaukee Green Map serves as an important benchmark for recognizing current practices and inspiring future growth.

How to use this map Milwaukee's Green Map organizes a list of site locations and resources where sustainable practices are being used or can be used in place. Additional location resources are listed on the reverse side and are color-coded by category. Sites are color-coded by category first and icon identified second. Although over 100 icons exist for the Green Map, a limited number have been used on this map. Numbers on the map flags correspond to the listed order. The map is meant to provide general locations for sites. Please call ahead for directions. Some sites are not listed on the map due to space constraints or because a more comprehensive listing can be found elsewhere (i.e., the Yellow Pages).

GREEN ECONOMICS

green business or service

These sites are difficult to categorize. Be sure to check the listing on the reverse for additional businesses which are not site specific, but offer green services.

- 001 Abt Industries, Inc. 1350 E. Brady St. Builds and markets outdoor furniture made from 100% recycled materials. 414-766-8272
002 BaySide Cleaners 828 N. Port Washington Rd. Natural Cleaners Alternative Fabric Care Technologies (NCAFT). Eco-friendly alternative to chemical dry cleaning. 414-352-7610
003 Breaking Bicycle Courier 224 A. West Wells St. Serving downtown Milwaukee locations. To 35th St. W. North Ave. to Greenfield/South. 414-347-2373
004 Natural Cleaners (NCAFT) 5442 S. 108th St. Produces no hazardous waste. 414-259-5388
005 Natural Cleaners (NCAFT) 865 N. Mayfair Rd. 414-475-1905
006 Outdoor Natural Foods 100 Capital Dr. 414-961-2597
007 Brighter Connections 1706 E. Capitol Drive. State's natural skylighting system. 414-332-9050

BUILT ENVIRONMENT

cultural or historical site

008 Greendale Originals South of W. Grange Ave. west of Loomis Rd., and east of E. 76th St. Site of 366 residential structures developed by the Federal government in 1938. This model generation community includes in Greenbelt, MD and Greenbelt, OH, offered small, one bedroom homes built of concrete. Meant to provide a respite from urban spaces yet still create a community, the plan for this area included walking paths through communally shared "backyard" greenparks, abundant trees, a non-gridded street-scape, and a proximity to library, grocery and post office. Now individually owned, they are a good example of thoughtfully, environmentally integrated urban planning.

009 Kilooban Reservoir Park E. Reservoir and E. North Ave. Early reservoir for city use. Built in 1873. Still in use but closed in 1979.

010 Native American Burial Mound of Lake Park Remnant Native American Burial Mound Site. Historical marker identifies site.

011 Nat. American Burial Mounds at Humboldt Yards Remnant site. This area was a recent protest against a large-scale conflict area. Currently a Jewel grocery store is being built on this location.

012 North Park Water Park N. Lake Drive and E. North Ave. Early Milwaukee water tower - 1873. Historic landmark in 1969.

013 Third Ward RiverWalk Extension between Cuyam and Erie Sts. Design by Armitas Myriss. To be completed in 2010, this \$10 million project combines site specific sculpture and bio remediation. Contact Milwaukee Art and Design 414-276-7899. See Riverwalk on reverse.

014 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

015 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

016 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

017 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

018 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

019 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

020 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

021 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

022 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

023 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

024 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

025 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

026 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

027 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

028 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

029 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

030 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

031 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

032 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

033 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

034 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

035 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

036 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

037 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

038 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

039 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

040 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

041 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

042 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

043 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

044 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

045 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

046 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

047 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

048 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

049 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

050 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

051 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

052 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

053 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

054 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

055 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

056 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

057 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

058 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

059 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

060 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

061 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

062 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

063 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

064 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

065 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

066 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

067 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

068 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

069 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

070 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

071 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

072 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

073 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

074 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

075 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

076 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

077 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

078 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

079 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

080 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

081 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

082 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

083 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

084 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

085 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

086 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

087 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

088 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

089 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

090 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

091 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

092 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

093 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

094 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

095 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

096 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

097 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

098 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

099 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

100 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

101 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

102 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

103 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

104 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

105 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

106 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

107 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

108 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

109 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

110 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

111 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

112 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

113 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

114 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

115 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

116 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

117 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

118 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

119 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

120 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

121 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

122 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

123 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

124 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

125 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

126 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

127 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

128 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

129 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

130 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

131 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

132 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

133 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

134 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

135 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

136 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

137 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

138 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

139 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

140 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

141 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

142 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

143 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

144 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

145 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

146 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

147 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

148 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

149 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

150 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

151 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

152 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

153 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

154 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

155 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

156 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

157 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

158 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

159 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

160 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

161 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

162 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

163 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

164 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

165 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

166 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

167 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

168 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

169 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

170 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

171 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

172 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

173 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

174 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

175 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

176 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

177 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

178 Milwaukee Community Service Corps 6150 E. Brady St. See reverse side for map and listing of museum locations.

179 Milwaukee Green Map Project 1015 E. Savelber Pl. 414-962-8888. Call for appointment.

180 Milwaukee Community Service Corps 6