CHATTANOOGA

_Cavalier Site Coming Back to Life_

Electric Power Board (EPB) is establishing a field office that will use the Cavalier Corp facility for a training and maintenance center and thereby open another site to be their fiber hub. The site will house 200 jobs. EPA funds have been a source of continued cleanup of the site, which is Chattanooga’s oldest manufacturing site, used by Cavalier Corporation for over 100 years. The initial project consisted of tearing down 18 of 22 buildings and the removal of underground storage tanks and some soil remediation.

Volkswagen Chattanooga Operations LLC (No EPA Funds)

The automobile manufacturing facility was built on a 1,350-acre brownfield site, the former US Army Munitions. Volkswagen is investing $1 billion in the local economy for the Chattanooga plant and create more than 2,000 direct jobs in the region. According to independent studies, the new Volkswagen plant is expected to generate $12 billion in income growth and an additional 9,500 jobs related to the project. The Chattanooga manufacturing facility will build the all-new 2012 Passat sedan, specially designed for the North American market. The facility was awarded the 2011 Governor’s Environmental Stewardship Award for Building Green. Some of the green features include: rainwater harvesting; advanced storm water management bioswales; a special single-ply membrane roof to minimize the heat island effect; a dry-scrubber system to collect paint overspray; extensive skylights to reduce the energy demand from light fixtures; and planting native or adapted plants, which do not require permanent irrigation.
Other Brownfields Projects Using EPA Funding - Chattanooga

EPA funds were used to cleanup two former Anchor Glass sites in Alton Park. One of the sites will house a new health center for the neighborhood which is a part of the Erlanger regional public hospital system.

A second site has been cleaned up with EPA funds and will be sold probably for industrial purposes with some probability to one of two adjacent industrial businesses adjacent to the tract.

Hamilton County is currently cleaning up an old school site and Chattanooga is in the process of beginning a cleanup of the adjacent 36th Street Landfill. When completed, these two parcels will be used for active and passive recreation.

Another site on Tennessee Avenue is in the process of beginning cleanup through an EPA grant. When completed, the front of the site will be sold for commercial purposes to the private sector and the rear of the site will be maintained as a wetland and be used for an environmental education site for area schools.

The 2008 Assessment Grant looked at properties throughout the central City west of Missionary Ridge, helping lay the groundwork for neighborhood plan implementation.

Under the EPA Revolving Loan Fund, the cleanup has just been completed on a parcel of 201 Cherokee Boulevard and a four story building is being constructed which will have a real estate firm on the ground floor and apartments on the upper floors.

Two additional RLF projects are in the process of being reviewed. One will result in a medical facility for the Main Street area and a second will result in substantial growth of a non-profit school as other portions of their existing site will be converted to new buildings needed by the school on their current campus.

Chattanooga Job Training Grants

The City of Chattanooga received the $200,000 EPA Brownfields Job Training grant in 2009. The two year Brownfields Job Training Program trained and graduated 52 low-income Chattanooga residents who became certified in hazardous materials removal including asbestos and lead-based paint. Training included mold abatement, confined space entry, aerial lift and fork lift operation and industrial services safety. Twenty-nine are now in jobs

Chattanooga Area EPA Brownfields Grants

<table>
<thead>
<tr>
<th>Year</th>
<th>Grant Description</th>
</tr>
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<tbody>
<tr>
<td>2011</td>
<td>$300,000 Job Training Grant – the Enterprise Center</td>
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<tr>
<td>2010</td>
<td>Two Cleanup Grants, total $400,000</td>
</tr>
<tr>
<td></td>
<td>$250,000 Coalition site assessment grant - Chattanooga-Hamilton County Regional Planning Agency</td>
</tr>
<tr>
<td>2009</td>
<td>$1.0 million RLF</td>
</tr>
<tr>
<td></td>
<td>$200,000 job training grant</td>
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<tr>
<td></td>
<td>$200,000 cleanup grant to Hamilton County</td>
</tr>
<tr>
<td>2008</td>
<td>$200,000 assessment grant</td>
</tr>
<tr>
<td>2006</td>
<td>$200,000 assessment grant</td>
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</tbody>
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1 Grants are to City of Chattanooga, unless otherwise specified.
averaging over $12.00 per hour. The Chattanooga program worked closely with Chattanooga Endeavors and the Tennessee Parole office to offer training to people who have been incarcerated. Twelve of the graduates were on parole and we are pleased to report that 75% of them are now working in environmental jobs.

In 2011 EPA selected The Enterprise Center, Inc., for a 2011 $300,000 environmental workforce development and job training grant. The Enterprise Center plans to train 48 students, place 36 graduates in environmental jobs, and track graduates for one year. The training program will consist of four 360-hour training cycles and will include 40-hour HAZWOPER, underground storage tank leak prevention awareness, solid waste management, innovative and alternative treatment technologies awareness, and accredited environmental training. There also will be a 216-hour commercial driver’s license course.

MEMPHIS/SHELBY COUNTY

*Shelby Farms Greenline Trail*

The first seven mile section of the Shelby Farms Greenline trail opened in October, 2010. An EPA Brownfield assessment grant supported the environmental testing of the entire 13.3 miles of the CSX rail line, community outreach, and partial greenway establishment. These funds have helped convert the first seven miles of old CSX rail line into a trail converging at Shelby Farms Park, resulting in quality of life benefits to residents and adding potential eco-tourism dollars as a boost to economic development. The funds also helped lay the groundwork for the extension of the green line to the east.

The Sustainable Shelby Implementation Plan established by Mayor Mark H. Luttrell, Jr.’s Office of Sustainability calls for developing Great Neighborhoods for a Great Community. This includes plans to work with all Shelby county municipal partners to unite neighborhood trails, bikeways, and park systems. The Shelby County Conservation Board is leading the effort to coordinate the efforts of all stakeholders who are working to connect already held properties to establish a county wide greenway. This connectivity will eventually provide a network where people will be able to enjoy the social and physical benefits the green spaces provide.

Phase One of the Greenline is 7 miles long and stretches from Tillman Street near Walnut Grove and ends at Shelby Farms adjacent to the code enforcement facility which provides ample parking for the greenline users who drive to the site from other areas of the county. At this point, users of the greenline are connected to the vast network of trails within the park itself.
**Wolfe River Corridor (Memphis)**

In 2010 the county received another $400,000 in site assessment funding to address brownfields in the Wolf River Brownfields Assessment Project area, a 25-mile-long by two-mile-wide corridor along the Wolf River. The corridor encompasses approximately 50 square miles of urban and mixed land uses including the river floodplain, adjoining urban neighborhoods, and the western side of downtown Memphis south to Crump Boulevard. According to a 2004 brownfields inventory this area includes more than 350 potential brownfields (*City of Memphis Brownfield Development Study*, 2004 and TDEC).

The Wolf River watershed has great importance to the city and region as a natural resource and environmental asset. The upper Wolf is a recharge zone for the Memphis Aquifer, the primary water source for the entire region. The river's wetlands and floodplains provide critical habitat for wildlife and recreational opportunities for people. Over decades, the river and its tributaries have been degraded by channelization, erosion, and water pollution. Incompatible industrial and residential development, environmental pollution and dumping have contributed to these problems. Within this large project area, four smaller target areas have been identified that exemplify these problems and will be the focus of the community-wide program. The four target areas are the Wolf River Harbor, the New Chicago community, the Hollywood community, and the Wolf River Greenway Corridor. Neighborhood industries from the early 1900s to the 1980s were hardwood lumber mills and associated manufacturing product firms, tire production, chemical manufacturing, and warehouses. Declines in these industries led to significant disinvestment and unemployment.

**Memphis Bioworks Foundation – EPA Brownfields Job Training Grant**

July 14, 2011 - Memphis Bioworks Foundation has received a $292,000 grant from the U.S. Environmental Protection Agency to train low-income residents to clean up polluted places in their neighborhoods. The funds will expand a larger brownfields project started by Shelby County with a $400,000 EPA grant in 2010.

North Memphians will be trained in four areas: 40-hour hazardous waste operations and emergency response; underground storage tank leak prevention awareness, solid waste management/cleanup and innovative and alternative treatment technologies.
Rolling Mill Hill Taking Shape

Rolling Mill Hill is an ambitious riverfront redevelopment project, centered on the sites of the former Metro General Hospital and Metro’s government vehicle fleet center. The Nashville Metropolitan District Housing Agency received multiple EPA Brownfields grants, totaling $900,000, to assess and clean the site.

The Nance Place workforce housing complex (91 units) is under construction. Nance Place is the first Gold LEED (Leadership in Energy and Environmental Design) multi-family project registered in Tennessee, and the entire site is being designed as a LEED neighborhood development. Another residential project, Ryman Lofts, and three non-profit facilities (The Center for Nonprofit Management, My Emma and the Nashville Entrepreneur Center) are slated for construction and occupancy in 2011 - 2012.

Cumberland Park – Rediscovering Nashville’s Waterfront

The Nashville Riverfront Concept Plan, jointly funded by the U.S. Army Corps of Engineers and the Metropolitan Board of Parks and Recreation, represents a community-based vision for long-term revitalization of the City’s downtown waterfronts. The initial project of the Plan, Cumberland Park, will be a downtown waterfront play park. The park will contain a series of play zones that offer a range of both active and passive recreational features such as natural play equipment for children, spraygrounds and water jets, bridges, climbing walls, walking paths, picnic areas, a stage with an open lawn and a river walk. It was assessed utilizing EPA Brownfields Targeted Assessment funding. It is currently under construction and targeted for completion in September, 2011.

The Plan calls for environmental clean-up and remediation of targeted brownfield sites, the introduction of additional parks, trails and water recreation facilities along the river's edge, and the eventual development of mixed-use urban neighborhoods on the eastern banks of the Cumberland River. The ambitious 20-year redevelopment vision of that planning document provides a framework for the potential infusion of more than $1.4 billion in new private
investment capital into the local economy with the transformation of more than 190 acres of underutilized industrial land into sustainable mixed-use development complemented by new cultural and entertainment venues serving local residents and visitors from around the world.

The "New Riverfront Park Plan" would effectively double existing public park land along the downtown waterfront with expanded recreational boat docking facilities, music performance venues, waterfront parks, boardwalks, overlooks and piers. Environmental enhancement projects would include: harvesting stormwater from the park and adjacent parking lots and bridges to be used for irrigation on the park site; the re-establishment of wetland areas along the river's edge; and retrofitting portions of existing parking lots serving LP Field (home of the NFL's Tennessee Titans) with "permeable grass" parking surfaces.

Metropolitan Nashville-Davidson County Planning Commission Chosen for EPA “Building Blocks/Sustainable Communities” Program

In April, 2011 Nashville-Davidson was one of 32 communities selected to receive technical assistance and workshop implementation under the EPA Sustainable Communities partnership.

KNOXVILLE

Spurring Redevelopment of the South Waterfront and Downtown North Areas

Knoxville has received $800,000 for Hazardous Substances and Petroleum Site Assessments ($400,000 in each of 2009 and 2011).

In 2009 Knoxville targeted the area located on the south bank of the Tennessee River directly across from downtown. South Knoxville contains active and closed industrial facilities with potential contamination, including petroleum and asphalt operations, furniture and automotive refinishers, and mills. There are about 20 abandoned, idle, and underused industrial and commercial sites in the target area, ranging in size from single lots to several acres. The site assessments laid the groundwork for the Suttree Landing Park (see rendering above), and the South Waterfront Plan.

For the 2011 grant, the City aims to similarly lay the groundwork for redevelopment plans for Downtown North, where there an estimated 170 acres of contaminated and under-utilized industrial land. The project plans to address former abandoned gas stations, old textile mills, closed smelters, and other abandoned industrial and commercial properties.
JACKSON

The Citizens Gas and Light property

The Citizens Gas and Light property in Jackson, Tennessee was a manufactured gas plant that operated from 1871-1931. It is located on the northern fringe of downtown Jackson, between a Farmers Market and a disadvantaged neighborhood. The City of Jackson was awarded a $200,000 Brownfields Cleanup Grant to remove source contamination areas and put a soil cover system in place. A multi-disciplinary team from the Jackson Energy Authority, the Tennessee Department of Environment and Conservation (TDEC), the City of Jackson, US EPA and the private sector worked together to make this cleanup grant a success. Over $250,000 additional funds were leveraged and 610 tons of coal-tar impacted soils were removed. The property is now an urban pocket park that complements the vision of downtown Jackson's revitalization.

SALTIMO

City of Saltillo, $260,000 Assessment Grants, 2009  Saltillo is a small Tennessee community with big dreams. With a population of 418 and a volunteer mayor who spear-headed the effort to apply for an EPA Brownfields Assessment Grant, a $260,000 grant was awarded in 2010. In the 1980s a blue jean factory closed its doors and left the town a very large vacant site. Saltillo wants to turn this current eye-sore into a community center and library. In addition to the abandoned factory, there are several gas stations and other properties around town that need assessing that will be possible through the Brownfields Assessment Grant. They also have acquired CDBG funding for their projects.

LENOIR CITY

Lenoir City was selected to receive an EPA Brownfields Assessment Grant. The 95-acre target property is located next to a low-income neighborhood with many migrant Hispanic residents. Assessment of the property will help the City determine the most effective industrial reuse for the site, which can generate private-sector investment, create new jobs, and eliminate blight.

EPA funds allowed the City to conduct a Phase I Environmental Site Assessment (ESA), off-site Phase II ESA including soil, sediment, and surface water sampling and wetland delineation; on-site Phase II ESA activities including installation and testing of over two hundred test pits over the 95-acre former rail yard and
foundry, to assess for constituents of concern associated with impacts resulting from previous
property uses; a geotechnical evaluation of the site for future property redevelopment
purposes; and hold meetings with potential developers and local agencies to address
redevelopment interests.

CITY OF NEWPORT

The City of Newport was selected to receive a brownfields assessment grant. This industrial
property, located adjacent to the City's main business district, has been abandoned for several
years and was last used to store hazardous chemicals. The deteriorating structure is an eyesore
for people entering the City's downtown, a safety hazard, an environmental hazard, and a
potential source of contamination for soil and groundwater. The City plans to develop the
property as a trailhead, riverfront pedestrian park, and river access point for emergency
vehicles.

EPA Brownfields funds enabled the City to perform environmental assessment and
remedial/redevelopment planning on the subject property and included Phase I and II
Environmental Site Assessments (ESAs), Quality Assurance Project Plan, Health and Safety
Plan, preparation of a redevelopment/reuse plan for the site, preliminary brownfields
agreement, remediation options, and assistance with public outreach.

The City’s greenway is in progress and the former brownfield property will tie in to the
greenway to become a passive park and canoe launch.

EAST TENNESSEE DEVELOPMENT DISTRICT

The East Tennessee Development District (ETDD) was selected to receive a brownfields
assessment grant. Located in the heart of Appalachia, the ETDD serves 16 counties
(combined population 1,050,543). The region depends heavily on government facilities for
employment. Over the past several years, the downsizing of these facilities has led to
significant job losses. The ETDD plans to establish a regionally focused program for eventual
cleanup and redevelopment of brownfields. This program is expected to lead to economic
growth while helping to preserve treasured agricultural and forest areas.

EPA Brownfields funds allowed the ETDD to perform an inventory of regional brownfield
sites, Phase I and Phase II Environmental Site Assessments, and establish a Regional
Brownfields Redevelopment program. Several candidate sites were identified including a
former textile mill, furniture manufacturer, two former petroleum bulk plants, two historical
landfills, former scrap metal facility, former heavy equipment machine shop, two former
service stations, and urban riverfront corridor for which Phase I ESA’s were prepared.

OTHER EPA TENNESSEE EPA BROWNFIELDS GRANTS

- Upper Cumberland Development District, $400,000 for community wide assessment, 2009
• Anderson County, Site Assessment Grant, 2008
• First Tennessee Development District, $200,000 Site Assessment Grant, 2007
• Sullivan County, $300,000 Site Assessment Grant, 2006
• Clarksville, $200,000 Site Assessment Grant, 2005
• Cookeville, $200,000 Brownfields Assessment Grant, 2004
• Knox County, $200,000 Brownfields Assessment Grant, 2004 Property has been assessed, awaiting end user.