

West Creek Watershed Restoration Project

Collaborating A Balance Between Ecological Restoration and Economic Development

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West Creek Ecological Restoration

- 1. West Creek Watershed History***
- 2. Funding***
- 3. Restoration Project Sites***
- 4. Restoration Goals***
- 5. Design Process***
- 6. Project Constraints***
- 7. Partnerships***
- 8. The Confluence Site***

West Creek Watershed History

- **Tributary of the Cuyahoga River**
- **14 square miles
9 miles**
- **Parma
Seven Hills
Brooklyn Heights
Independence**



Going for the Greenway...Connecting Nature to a Neighborhood Near You!

<http://www.westcreek.org>

West Creek Watershed History

- **WCPC founded in 1997**
- **West Creek Preserve and Greenway, a 500-acre natural park**
- **Focus on conservation and restoration**



Going for the Greenway...Connecting Nature to a Neighborhood Near You!

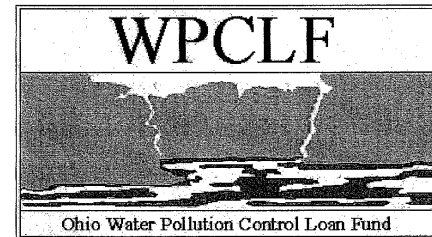
<http://www.westcreek.org>

West Creek Restoration Funding

- **WRRSP link to WPCLF**
- **Ecological Restoration**
- **Use the loan interest**

OHIO E.P.A.
JAN -3 2007
ENTERED DIRECTOR'S JOURNAL

State of Ohio
Water Pollution Control Loan Fund
2007 Program Management Plan



*To benefit Ohio's water resources and public health
by providing lower cost financing, economic incentives, and project assistance
for public and private organizations and individuals.*

I certify this to be a true and accurate copy of the
official documents as filed in the records of the Ohio
Environmental Protection Agency.

By: John J. Jackson Date: 1-3-07

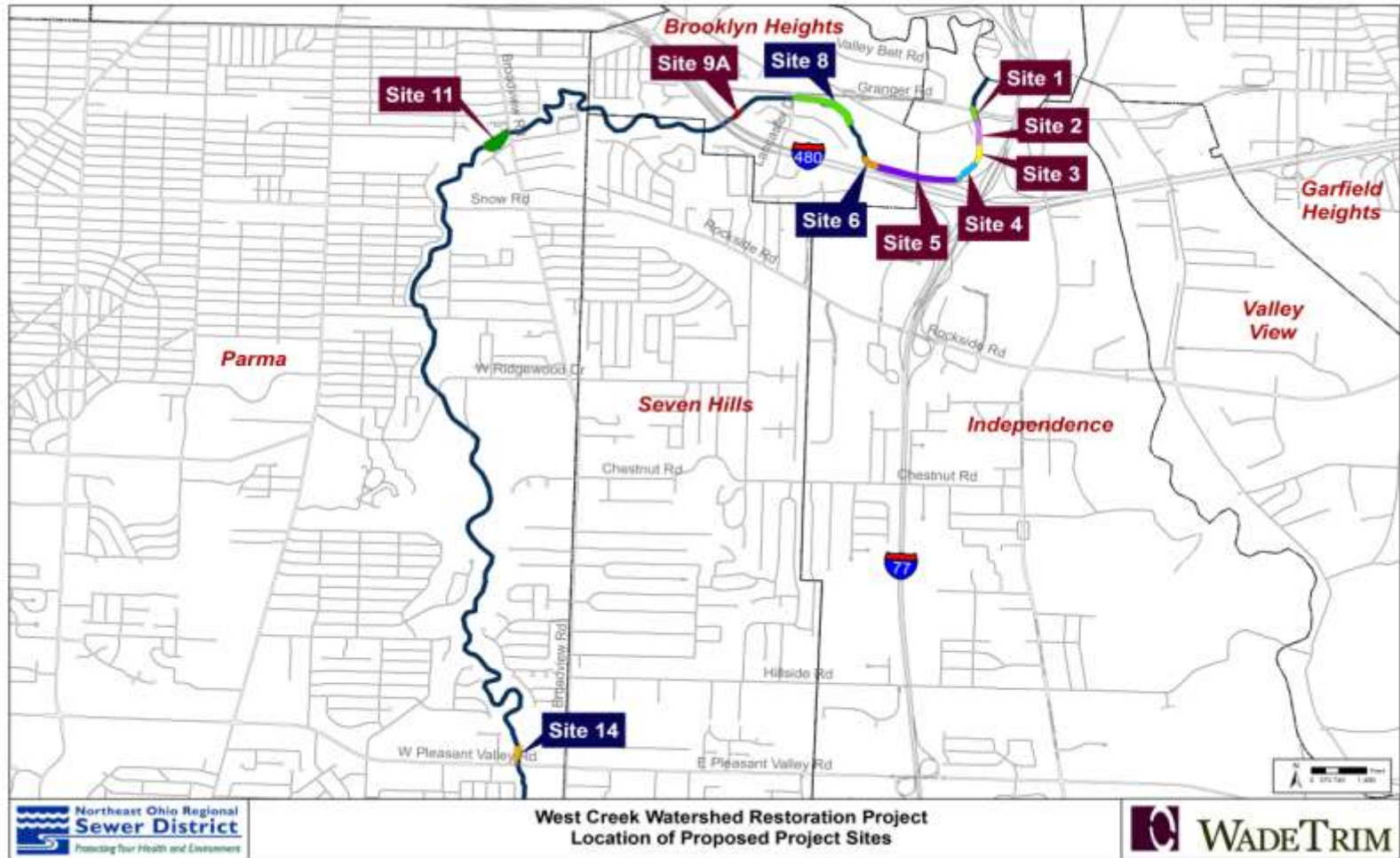
West Creek Restoration Funding

➤ An Infrastructure / Ecological Collaboration

👉 West Creek focus on \$3.8 million project

👉 \$385,000....\$3.5 million....\$600,000+

Ecological Restoration Project Sites



Ecological Restoration Goals

Ecological / Economic Development Collaboration

- ➔ **Fish Migration**
- ➔ **Stream Bank & Channel Erosion**
- ➔ **Improved Stream Flows**
- ➔ **Improved Aquatic Habitat**

West Creek Stream Restoration Design Principles

- Restoration will embrace a natural channel design approach and will incorporate protective measures such as soil bioengineering systems, bank stabilization using native plant material as well as structural measures where appropriate.
- Restoration will prevent the loss of land or damage to land uses or other facilities within and adjacent to the stream corridor.
- Restoration will reduce offsite and/or downstream effects of sediment resulting from bank erosion.
- Restoration will improve or enhance the aesthetics and use of the West Creek corridor for passive recreation.
- Restoration will be designed to achieve the habitat and population objectives for targeted fish and wildlife species.
- Restoration will be designed to achieve the maintenance and operation objectives of the project sponsors and stakeholders.

Collaboration Based Design Process

➤ A Collaboration with Stakeholders

☞ **Natural Channel Design Approach**

☞ **Problem Identification**

☞ **Design Charrette**

Collaboration Based Design Process

Problem Identification

**Charrette-
Collaborative Brainstorming**

Collaboration Based Design Process

Charrette

Noun - An intense brainstorming process that leads to a finished design.

West Creek Watershed
Restoration Design

Design Charrette
November 30, 2005
10:00 a.m. – 3:30 p.m.
Cleveland Metroparks
CanalWay Visitor Center

Collaboration Based Design Process

Figure 19. Site 8 Restoration Design Concept



Restoration Project Constraints

➤ Land Use Collaboration

☞ ***"Shopping Debris"***

☞ **Highways and Byways and Dumps Oh My**

☞ **Business Expansion**

Restoration Project Constraints



Restoration Project Constraints

➤ Land Use Collaboration

☞ “Shopping Debris”

☞ *Highways and Byways and Dumps
Oh My*

☞ Business Expansion

Restoration Project Constraints



Restoration Project Constraints

➤ Land Use Collaboration

☞ “Shopping Debris”

☞ Highways and Byways and Dumps Oh My

☞ ***Business Expansion***

Restoration Project Constraints



Ecological Restoration Partnerships

➤ It's All About Collaboration

👉 **Property Owners**

👉 **Parma-Brooklyn Heights-Independence**

👉 **Regulatory & Metroparks**

👉 **WCPC**

Ecological Restoration Partnerships

➤ Property Owners

☞ Sponsorship Agreements

☞ Environmental Covenants

☞ Restoration Designs

Ecological Restoration Partnerships

➤ Parma-Brooklyn Heights-Independence

☞ **Respect future development potential**

☞ **Infrastructure protection**

☞ **Assist w/property owners**

Ecological Restoration Partnerships

➤ Regulatory & Metroparks

☞ Funding (Ohio EPA)

☞ Assistance w/ biological improvements

☞ Future Reservation expansion

Ecological Restoration Partnerships

➤ West Creek Preservation Committee

☞ Understand each other's roles

☞ We're just guests in their watershed

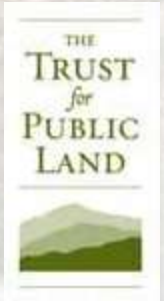
West Creek Confluence Site

Collaboration Continues Downstream

- 👉 **Vacant warehouse**
- 👉 **10 acres of CuyRiv floodplain**
- 👉 **3-years of WCPC negotiations**



West Creek Confluence Site



West Creek Watershed Restoration Project

It's all about the River...

-D. Rosgen



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