PROJECT clarity

Restoring the Macatawa Watershed

Lako Macalawa



Project Clarity: Restoring the Macatawa Watershed

Gomprehensive Restoration Plan

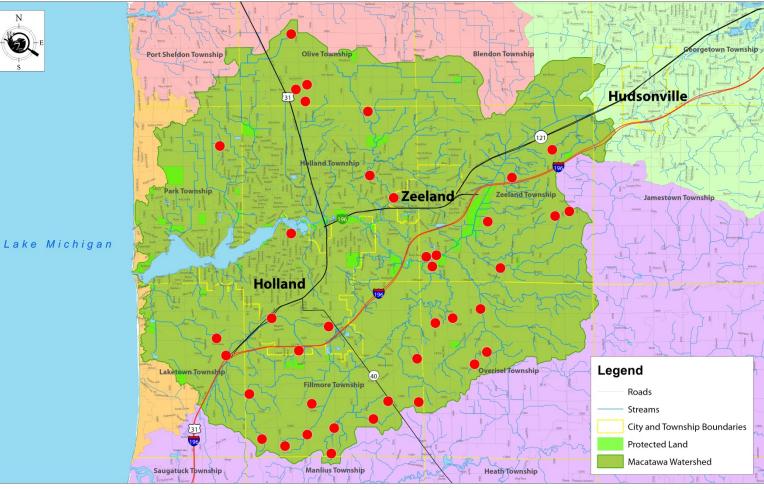
Project Clarity: Comprehensive Restoration Plan

✓ Investment of \$11,976,000

✓ Multi-faceted approach

- ID & Secure Land
- Restoration
- Best Management Practices (BMP)
- Education & Information
- Maintenance





Project Clarity Projects

Data Source: Michigan Geographic Data Library, MDEQ

10 Miles 2.5 5

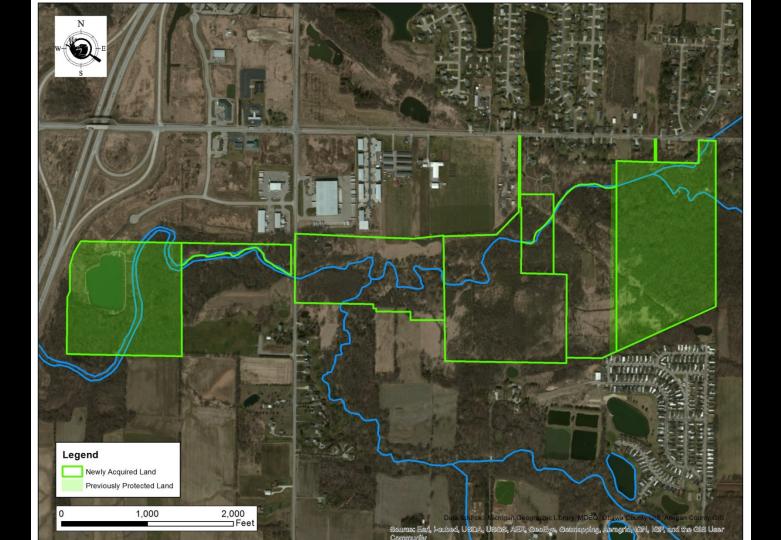
PROJECT**clarity** Restoration Site

Middle Macatawa Restorations

www.macatawaclarity.org



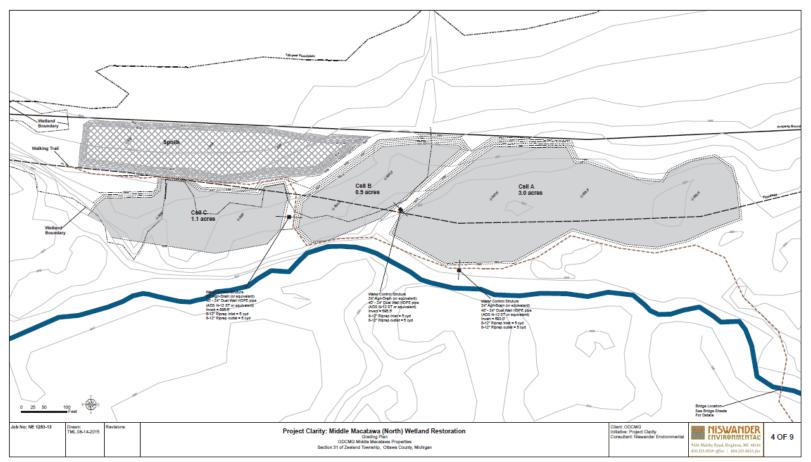






Outdoor Discovery Center Macatawa Greenway Middle Macatawa Wetland Restoration Zeeland Township, Section 31, Ottawa County, MI

USEPA - Great Lakes Restoration Initiative Project: GL-00E01459-0











	S PROJ
	reciperelarity
	Project Name: Project Address are attached map
ations	Critteria
	A deduced when a set of the sports
	Contraction of the Number
	The Parallel Low
	A Provinsity to and actualities (source and)
	Friday & State First State State State State
ome	
ord Outcoment	4. But Redwineth drove (Area and
An Accepted Outcome and Accepted by a series of the comparison of the opposite of the compared to be opposite of the compared to the opposite of the opposite	A first of the second s
A Minimum plated be option	A Mart (mart and
tion on the conterned to	A Mapping (second count) Printing States of the Incode States
	A design interest (interest and interest in the set of the
and surface	
vilue on services	
and the Carl	7. And instantian in the second second at the second se
Lander and Inuffer a	
Vermanne Arainare	
Contrast touther Contrast touther Contrast touther bernards of contrast where Contrast touther bernards or contrast where Contrast touther bernards or contrast where Contrast touther bernards or contrast touther Contrast touther bernards of the contrast touther Contrast	
Confloat relates income or come Confloat there income a reas Distribute into time a reas Distribute into time a reas of the reas of the confloat using Confloations of the reas of the confloation of the reason of the reason of the reason of the reas	And a second
C Field nerge pro nerer Comp	
	Advanta Annalis (and Annalis (and
test on a commutanting	the same prove and marked and
Solitophe will sent retion by fait farth	
Rollon corry sul an enter strips	Cost Benefit Analysis
a make which and and a mind	Provide - Programme Industries
Full Waln vessel alde ou	(and Party)
	The Entransmit Name Cost of Program
American Marian Appropriation of Appropriate Approprise Appropriate Appropropriate Appropriate Appropriate Appropriat	Conservation Value
nt Alwars ment of Generating Tis	⁴ control to tradition to the output of the provide eVED/6, Transportance experiments from the output output of the provided on provided the provided to a provided to a pro- tingent on provided the provided to a provided to a pro- tingent on provided to a provided to a pro- tingent on provided to a provided to a pro- tingent on pro- ting
Approximation of the Markow sectors Construction of the Markow sectors Approximation of the Markow sectors Ap	Propert National
Rural Agriculture	
Putrad I	
tices	

Q Requests can be ma practices. In order to admitted to the Fra determined by the co ocation, cost, reduc partially funded dep

> w Drai Wetland & Se

What type of project are you inte

Grassed

unding as long as m Greenway - Project or initiative. The Pro In 70%

> Name Farm/Entity F

Ermai

Agricultural Best Management **Practices (BMPs)**

Project Clarity Acticultural Committee Project Clarity Agricultural Committee Best Management Provide Guidelines and Recomme

PROJECTCLarity

IMP Catego

The south day are hely freeded by Diff. and the size	* 1.0 I			
		-		
0.0				
A star inscherentation Joseph all that work!	1.00	_		
our agent minut.				
and the local division of the local division				
STATE OF THE OWNER OWNE	725			
A PROPERTY AND A PROPERTY	1 (MARCENE) / AN			
Report of State (second second second as a function of the second				
And a second sec	10			
19.00				
A funding describe (many sons)				
dief destin, proving the same bar of 1	12			
	TOTAL SCORE			
	TOTAL SCORE			
Benefit Analysis				
Annality - Phospheres Balleting				
the lateral of the la				
Factor, data and and other				
No. Televania Tané Lua of Friday	and the second second			
Possessation Value having	A105	1000		
Consistent lived reduction based on Bingan of presiden of constant term, Constant STEPS, Prospherics servings based on and basis where modulitie or DOS posterior	a statut of lasts are not analysis.	10.012 of		
" task of press theget, will pointing an extent to arrive the or				
No.				
Proper Linety, Apr	Autori Proper Renting			Page 1 of 1
	4			
	SU _			
DDOIRC	Tclarit	**		
PROJEC	Ciaiii	У		
Qualifying Agricultural I	Best Manag	ement	Practices	
n be made to the Project Clarity Agricultural G	committee requesti	or assistan	re with any of the	following
order to qualify, applicants must have a com				
o the Project Clarity Agricultural Committee. A				
by the committee using the Project Clarity Co				
by the committee using the Project Clarity Co it, reduction of sediment and nutrient run-off				
ded depending on the project cost benefit an				
ong as money is available. Funds used for proj				
Project Clarity Initiative. This is a privately fur				
The Project Clarity Goal is to: Reduce the Se	diment and Phosph	vorus runol	t in the Macataw	a Watershed
Quality	ing Practices:			
WASCOB Installation	10-10		fer Strip Impleme	
Drainage Management	Ve		op Implementatio	
land & Sediment Pond Development			eding Cover Crop	
Two Stage Ditch Development			-till Farming	
Grassed Waterway Development		Gyps	um Application	
Contact	Information:			
·				
Entity Name:				

CT CLARITY

#DIV/01

Project Requests

Requests should be sent to:

Please attach map or location information of field(s) where you are interested in a project(s) Outdoor Discovery Center Macatawa Greenway, c/o Project Clarity, 4214 56th Street, Holland, MI 49423 ations or additional information, please contact Dan Callam at 616-393-9453, or dans 2 or

Project Clarity

PROJECTClarity Agricultural Statement of Commitment

Agricultural Committee

- Allison Brink, Brink Consulting
- Bob Dykhuis, Dykhuis Farms
- Bryan Kleinheksel, Kleinheksel Farms
- Jeff Hoeve, Hoeve Farms
- John Janssen, Great Lakes Turkey Farms
- Cal Schipper, Schipper Eggs
- Ross Timmerman, QuarterLine Farms
- Bob Fenton, CHS
- John Christian, GreenValley Agriculture Inc.
- Cliff Meeuwsen, Zeeland Farm Services













Cover Crops

No till farming \rightarrow



Cover Crop InterSeeder



Cover Crop InterSeeder







Gypsum Applications



Gypsum applied to **3,658 acres** of farmland.

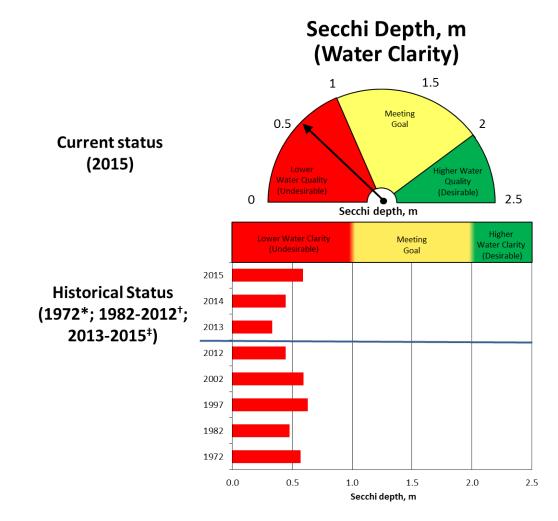
Agricultural BMP Highlights

- •34 farms committed to implement water quality best management practices (BMP's) on nearly **11,000 acres** of land.
- Project Clarity is providing matching funds on an additional 4,461
 acres managed by Macatawa Watershed Project from the Great Lakes Restoration Initiative.
- To date, Project Clarity has committed to a total of **42** Agricultural BMP projects. Of the projects...
 - Gypsum was applied to 3,658 acres of farmland
 - 8.1 acre-feet of water storage was created by farm projects.
 - 1,803 acres of cover crop were planted.
 - 1.5 miles of two-stage ditches were created.

Storm Water Sediment Trap



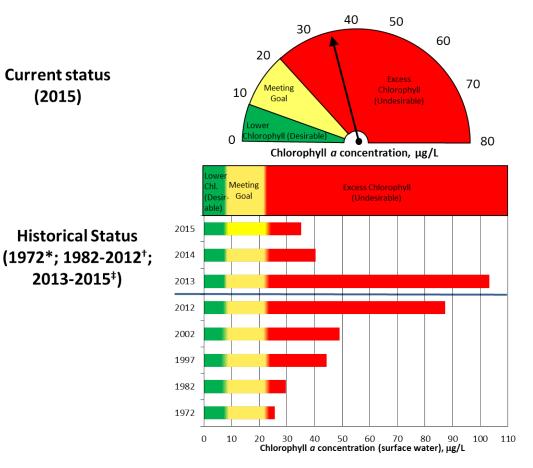






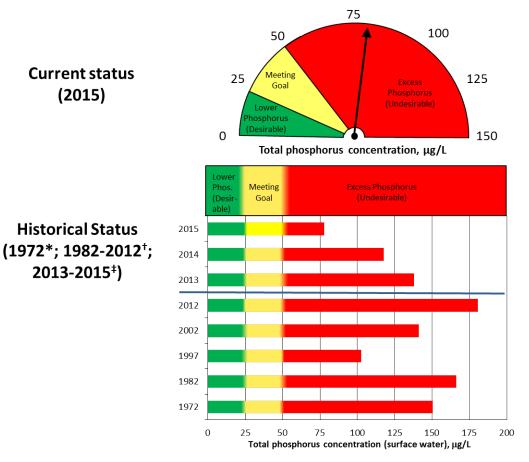
*U.S. EPA; [†]MDEQ; [‡]AWRI

Chlorophyll *a* Concentration, µg/L



*U.S. EPA; [†]MDEQ; [‡]AWRI

Total Phosphorus Concentration, μ g/L



*U.S. EPA; [†]MDEQ; [‡]AWRI





Save The Date: July 15th, 2017!



