

Rock County Land Cons. Dept.

YAHARA RIVER WATERSHED PHOSPHORUS
REDUCTION PROGRAM

Chris Murphy
Conservation Specialist

SUMMARY OF 2020 PROJECTS

- 2 HARVESTABLE BUFFERS = 3 ACRES
- 1 GRASSED WATERWAY = .62 ACRE
- 2.45 ACRES OF ANNUAL CROPLAND PLANTED TO PERENNIAL VEGETATION
- 1 WETLAND DEVELOPMENT = .5 ACRE
- 10.4 ACRES OF DRYLOT PASTURE TO PERENNIAL VEGETATION (Wildlife Habitat) AND REPAIR 380 FEET OF GULLY EROSION WITH ROCK LINED WATERWAY

BMP INSTALLED IN 2020: PASTURE - WATERWAY



- SOUTH OF COUNTY HIGHWAY M
- 176 ACRE WATERSHED

BMP INSTALLED IN 2020: PASTURE - WATERWAY



SOIL TEST OF DRYLOT PASTURE

Report Number
F19098-4007
Account Number
12519



3505 Conestoga Dr.
Fort Wayne, IN 46808
260.483.4759
algreatlakes.com

To: HELENA AGRI-ENTERPRISES
156 CO RD N
PO BOX 67
EDGERTON, WI 53534-0067
Attn: IAN DUFFY

For: DAVE WELNITZ
Farm: HOME
Field: PATURE

County: ROCK
Soil: UNKNOWN
Flow Depth: 7
Acres:

Date Received: 4/8/2019
Date Reported: 4/10/2019

Page: 1 of 1

SOIL TEST REPORT

Sample ID	Lab Number	OM %	P * ppm	K * ppm	Mg ** ppm	Ca ** ppm	Soil pH	Buffer pH	CEC ** meq/100g	Cation Saturation **				S ** ppm	Zn ** ppm	Mn ** ppm	Fe ** ppm	Cu ** ppm	B ** ppm	Bicarb-P ppm	NO3-N ppm**
										%K	%Mg	%Ca	%H								
1	29947	9.5	474	1243	835	2450	8.0		22.4	14.2	31.1	54.7		29	12.0	49			3.6		
Average		9.5	474 [*]	1243 [*]	835	2450	8.0		22.4	14.2	31.1	54.7		29	12.0	49			3.6		

WI DATCP Laboratory Certification Number 01-15-03-201

Report reviewed and approved by our professional agronomy staff.

* Soil Test Recommendations for Field, Vegetable and Fruit Crops, UW A2809, 2012. ** Recommended Chemical Soil Test Procedures for the North Central Region, NCR No. 221, 2012. * Weighted average, UW-A2809.

• 474 PPM PHOSPHORUS

BMP INSTALLED IN 2020 – ROCK LINED WATERWAY



BMP INSTALLED IN 2020 – PERENNIAL VEGETATION



PARCEL 6-16-201 BREAKDOWN

- REPAIR 380 FEET OF GULLY EROSION WITH ROCK LINED WATERWAY

- Annual P reduction = 266.2 pounds
- Actual cost = \$46,000* estimated 15 year P reduction = 3,993 pounds
 - Cost per pound of P reduction = \$11.52

- 10.4 ACRES OF DRYLOT PASTURE TO WILDLIFE HABITAT

- Annual P reduction = 1,155.4 pounds
- Estimated cost = \$53,087* estimated 15 year P reduction = 17,331.6 pounds
 - Cost per pound of P reduction = \$3.06

* Includes Rock County LCD staff cost

SUMMARY OF ACTIVITIES

2017 - 2020

- 12 HARVESTABLE BUFFERS = 29.6 ACRES
 - 321 FEET STREAMBANK RESTORATION ON BADFISH CREEK
 - CROPLAND TO PERENNIAL FORAGE = 30.4 ACRES
 - 1 ROCK LINED WATERWAY = .4 ACRE
 - DRYLOT PASTURE TO PERENNIAL FORAGE = 10.4 ACRES
 - 1 WETLAND DEVELOPMENT = .5 ACRE
 - 1 GRASSED WATERWAY = .62 ACRES
- 1 UPLAND WATER BASIN, 1,200 FEET OF UNDERGROUND OUTLET

SUMMARY OF ACTIVITIES 2017 - 2020

ANNUAL POUNDS OF PHOSPHORUS REDUCED = 2,964.1

15 YEAR TOTAL POUNDS OF PHOSPHORUS REDUCED = 44,461.5

TOTAL COST OF PROJECTS = \$637,775

COST PER POUND OF P REDUCED = \$14.34*

*includes staff costs

PLANNED 2021 PROJECTS

- **Roof Runoff System – Settling Basin with seasonal storage – Vegetative Treatment Area**
- **2 Harvestable Buffers = 6 acres**
- **5.2 acre Wetland Development**

Roof Runoff System – Settling Basin with seasonal storage – Vegetative Treatment Area



Roof Runoff System – Settling Basin with seasonal storage – Vegetative Treatment Area





Questions?