

Final Report

Agricultural Targeted Runoff Management &
Notice of Discharge Grant Programs

Form 3400-189A (R 8/15)

Page 1 of 2

NOTICE: This document is required under s. 281.65, Wis. Stats., and chs. NR 153 and 154, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Targeted Runoff Management and Notice of Discharge Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

| | | | |
|---|--|------------------------|---------------------|
| Grant Type | | | |
| Select Grant Type Small Scale Total Maximum Daily Load (TMDL) | | | |
| Project Name & Location | | | |
| Project Name | | | |
| Wood Valley Manure Storage | | | |
| Grant Number | | Governmental Unit Name | |
| TMD-SC04-48000-15 | | Polk County LWRD | |
| County | | Watershed Name | 12-Digit HUC |
| Polk | | Lower Apple River | 070300050708 |
| Project Contact Name | | Phone Number | E-mail Address |
| Eric Wojchik | | (715) 485-8644 | ericw@co.polk.wi.us |
| <input type="checkbox"/> For a project with multiple site locations, an aerial photo map is attached with each site location labeled. | | | |

| | | | | | | | |
|--|-------|-------------------------------------|---|---------|-----------------|--|-----------|
| Site Location - 1 | | | | | | | |
| Name of Cost-Share Recipient | | | | | Animal Units | Nearest Receiving Waterbody | |
| Dale and Cristine Wood | | | | | 208 | French Lake | |
| Township | Range | E / W | Section | Quarter | Quarter/Quarter | Latitude | Longitude |
| 32 | 16 | W | 12 | SE | NW | 45.273 | -92.2953 |
| Compliance Requirements - 1 | | | | | | | |
| Chs. NR 151 or 243 Wis. Adm. Code Notice Type | | Notice letter attached | Compliance achieved? If no, explain in site information | | | Compliance determination letter attached | |
| Other | | <input checked="" type="checkbox"/> | <input type="radio"/> Yes <input checked="" type="radio"/> No | | | <input type="checkbox"/> | |
| <input type="checkbox"/> Attached is a copy of the written statement the County provided to the landowner and cost-share recipient of the landowner's obligation to maintain compliance with performance standards & prohibitions on cropland and livestock facilities addressed by the cost-share agreement. Compliance at these sites must be maintained in perpetuity regardless of future cost sharing. The County has also placed a copy of this written statement in the County files. | | | | | | | |

| Summary of Results - 1 | | | | | | | |
|------------------------------------|----------|-----------------|--|-------------------------|-------------------|-----------------|------------------|
| Best Management Practice Installed | Quantity | Unit of Measure | Performance Standard/Prohibition Addressed | Total Installation Cost | Phosphorus lbs/yr | Nitrogen lbs/yr | Sediment Tons/yr |
| Manure Storage System Closure | 1 | No. | Code(s) 5,6 | \$6,500.00 | Unknown | Unknown | Unknown |
| Manure Storage Systems | 1 | No. | Code(s) 9,10,11,12,6,4,7 | \$66,626.00 | Unknown | Unknown | Unknown |
| Waste Transfer Systems | 1 | No. | Code(s) 4 | \$31,330.00 | Unknown | Unknown | Unknown |
| Livestock Fencing | 440 | Feet | Code(s) 4 | \$9,815.00 | Unknown | Unknown | Unknown |
| Nutrient Management | 488 | Acres | Code(s) 1,11,9,3 | \$0.00 | 278 | 781 | Unknown |

| | |
|---|--|
| Site Location Attachment - 1 | |
| Check the box if the required information for the site is attached: | |
| <input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s) | <input type="checkbox"/> Load reduction modeling documents |
| <input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled | <input type="checkbox"/> Water quality monitoring results/summary, if applicable |
| Site Information - 1 | |

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Narrative space will expand to fit

This project was initiated by the landowner because of a failing existing manure storage facility. Because of the condition of the existing manure storage facility there was no option to repair it and Polk County LWRD proposed he close it and build a new storage facility.

The project was installed as planned with the exception of some improvements to the design late in the project. It was a multi-phase project including the closure of the existing manure storage facility, excavation of the new facility and finally concreting the new facility. Late in construction the project was amended to include the improvement of the access road to the new manure storage facility and eliminating the second manure transfer line and changing it to a concrete push ramp to the pit for animal lot manure. As a part of this project a nutrient management plan was also developed for the acres in the farm and will be updated annually. Pictures of the project are attached as well as the "As-Built" plan view of installed practices.

☒ DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project Information and/or Comments

Narrative space will expand to fit

Phosphorus, Nitrogen and sediment load reductions were not modeled for these practices. Efficiency values are not available for any of the practices except for nutrient management that we know of. Polk County LWRD has used STEPL to model load reductions associated with nutrient management planning and have knowledge of load reduction averages in lbs/ac for nitrogen and phosphorus. We used the value of .57 lbs/acre for phosphorus and 1.6 lbs/acre nitrogen load reductions associated with the implementation of nutrient management. The totals are listed above.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form prior to submittal to DNR.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments are correct and true.

Name of Authorized Government Official

Title of Authorized Government Official

Date

County Conservationist

05/11/2016

For DNR Use Only

☐ Received complete reports with all attachments

☐ Practices implemented were consistent with the grant agreement

Comments about this project:

Name of Region Nonpoint Source Coordinator

Date

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grant Coordinator. Keep a printed copy for the Region file.

Attachment 1 - Wood Valley Manure Storage Before Photos



Note: Date stamp is incorrect on most all of the photos. Correct date for these photos is November 7th, 2013.

Note: First day of construction. Future location of the new manure pit is where the creep feeders are sitting.

Wood Valley Manure Pit Closure



Old pit location

Wood Valley Manure Storage Construction Photos



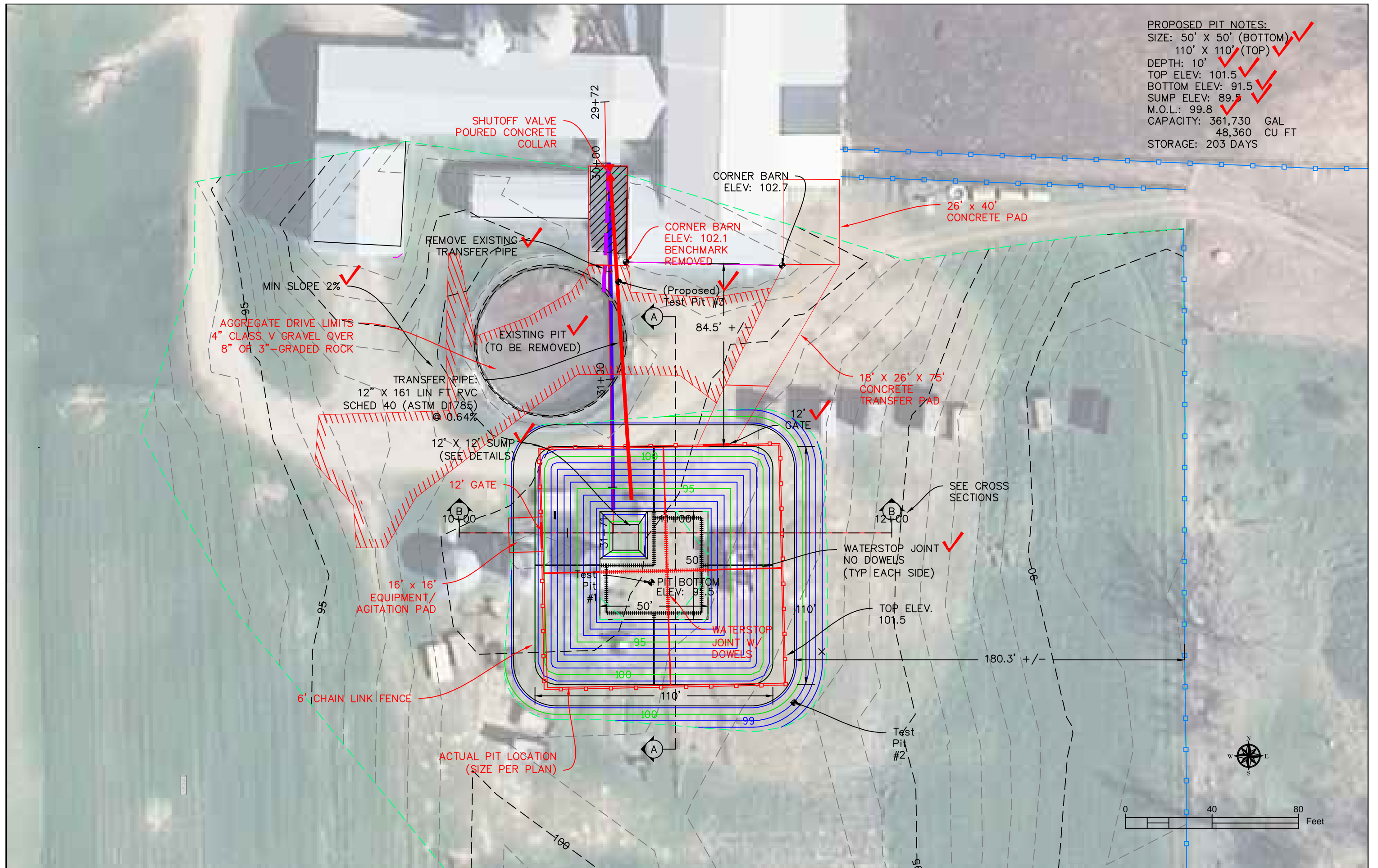


Manure push lane to pit



Completed project October 5, 2015

PROPOSED PIT NOTES:
SIZE: 50' X 50' (BOTTOM) ✓
110' X 110' (TOP) ✓
DEPTH: 10' ✓
TOP ELEV: 101.5 ✓
BOTTOM ELEV: 91.5 ✓
SUMP ELEV: 89.5 ✓
M.O.L.: 99.8 ✓
CAPACITY: 361,730 GAL
48,360 CU FT
STORAGE: 203 DAYS





Wisconsin Department of Agriculture, Trade & Consumer Protection
Division of Agricultural Resource Management
Bureau of Land and Water Resources
PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Nutrient Management Plan Checklist

Sec. 92.05(3)(k), Wis. Stats.
ATCP 50.04(3) Wis. Admin. Code

Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 590 Standard (Sept. 2005).

County name: Polk Date Plan Submitted: 2/2016 Growing season year NM plan is written for 2016 (from harvest to harvest)
Township (T. 32 N) – (R. 16 W) ☒ Initial Plan or ☐ Updated Plan (choose one)

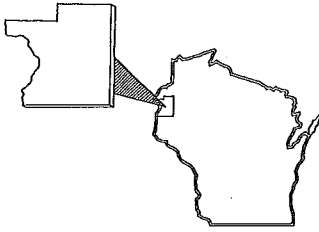
| | | |
|--|---|---|
| Name of qualified nutrient management planner Mark Schaffner CCA # 359887 | | Planner's business name, address, phone: Dairyland Labs 608-323-0044 |
| Circle the planner's qualification: 1. <input type="checkbox"/> NAICC-CPPC 2. <input checked="" type="checkbox"/> ASA-CCA 3. <input type="checkbox"/> ASA-Professional Agronomist 4. <input type="checkbox"/> SSSA-Soil Scientist 5. <input type="checkbox"/> DATCP approved training course 6. <input type="checkbox"/> Other credentials approved by DATCP | Cropland Acres (owned & rented) 488 Rented farm(s) landowner name(s) and acreage: | Name of farm operator receiving nutrient management plan: Wood Valley Farm (Dale Wood) |
| Check relevant program requirement/regulation plan developed for: <input type="checkbox"/> Ordinance <input type="checkbox"/> USDA <input checked="" type="checkbox"/> DATCP <input type="checkbox"/> DNR <input type="checkbox"/> NR 243 – <input type="checkbox"/> NOD or <input type="checkbox"/> WPDES | | |

| | Yes | No | NA |
|--|-----|----|----|
| 1. Are the following field features identified on maps or aerial photos in the plan? | | | |
| a. Field location, soil survey map unit(s), field boundary, acres and field identification number | X | | |
| b. Areas prohibited from receiving nutrient applications: Surface water, established concentrated flow channels with perennial cover, permanent non-harvested vegetative buffer, non-farmed wetlands, sinkholes, lands where established vegetation is not removed, nonmetallic mines, and fields eroding at a rate exceeding tolerable soil loss (T) | X | | |
| c. Areas within 50 feet of a potable drinking water well where mechanically-applied manure is prohibited | X | | |
| d. Areas prohibited from receiving winter nutrient applications: Slopes > 9% (12% if contour-cropped); Surface Water Quality Management Area (SWQMA) defined as land within 1,000 ft of lakes and ponds or within 300 ft of perennial streams draining to these waters, unless manure is deposited through winter gleaning/pasturing of plant residue and not exceeding the N and P requirements of this standard; Additional areas identified within a conservation plan as contributing runoff to surface or groundwater | X | | |
| e. Areas where winter applications are restricted unless effectively incorporated within 72 hours: Land contributing runoff within 200 feet upslope of direct conduits to groundwater such as a well, sinkhole, fractured bedrock at the surface, tile inlet, or nonmetallic mine | X | | |
| f. Sites vulnerable to N leaching: Areas within 1,000 feet of a municipal well, and soils listed in Appendix 1 of the Conservation Planning Technical Note WI-1 | X | | |
| 2. Are erosion controls implemented so the crop rotation will not exceed T on fields that receive nutrients according to the conservation plan or WI P Index model? | X | | |
| 3. Were soil samples collected and analyzed within the last 4 years according to UW Publication A2100 recommendations? | X | | |
| 4. Using the field's predominant soil series and realistic yield goals, are planned nutrient application rates, timing, and methods of all forms of N, P, and K listed in the plan and consistent with UW Publication A 2809, Soil Test Recommendations for Field, Vegetable and Fruit Crops, and the 590 standard? | X | | |
| 5. Do manure production and collection estimates correspond to the acreage needed in the plan? Are manure application rates realistic for the calibrated equipment used? | X | | |
| 6. Is a single phosphorus (P) assessment of either the P Index or soil test P management strategy uniformly applied to all fields within a tract? | X | | |
| 7. Are areas of concentrated flow, resulting in reoccurring gullies, planned to be protected with perennial vegetative cover? | X | | |
| 8. Will nutrient applications on non-frozen soil within the SWQMA comply with the following? | | | |
| a. Unincorporated liquid manure on unsaturated soils will be applied according to Table 1 of the 590 standard to minimize runoff | X | | |
| b. One or more of the following practices will be used: 1) Install/maintain permanent vegetative buffers, or 2) Maintain greater than 30% crop residue or vegetative coverage on the surface after nutrient application, or 3) Incorporate nutrients leaving adequate residue to meet tolerable soil loss, or 4) Establish fall cover crops promptly following application | X | | |

I certify that the nutrient management plan represented by this checklist complies with Wisconsin's NRCS 590 nutrient management standard.

Signature of qualified nutrient management planner

[Signature] 2/22/16



POLK COUNTY LAND & WATER RESOURCES DEPARTMENT

100 POLK COUNTY PLAZA SUITE 120, BALSAM LAKE, WISCONSIN 54810

PHONE: 715-485-8699

FAX: 715-485-8601

TIM RITTEN, DIRECTOR 715-485-8631

April 1, 2014

Mr. Dale Wood
444 65th St.
Clear Lake, WI 54005

Dear Mr. Wood:

Thank you for your interest in addressing manure storage improvements on your operation. The Polk County Land and Water Resources hopes to offer financial assistance to you by applying for funding through the WI DNR Targeted Runoff Management Program (TRM). We also would like to offer technical assistance for design and installation of the project. With this good faith offer we hope to proceed with the manure storage facility proposal as presented.

If you decide against the proposal please understand that your current manure storage facility is inadequate and in need of repair or replacement according to NRCS standards and specifications. As you are aware from previous conversations, failing manure storage facilities must be repaired.

Repairs to waste storage facilities is considered a 'substantial alteration' and is subject to regulation under Sec. 8-4-3(1)(b)2 of Polk County's Manure and Water Quality Management Ordinance. If you decide against Polk County's offer of assistance in this proposal you will still be required to address the failing structure in a way that is in compliance with government standards as required by ordinance. If the structure is not addressed by closure or reconstruction, enforcement action may result.

Please consider this proposal and good faith offer of assistance. If you have further questions regarding this correspondence please contact me at 715-485-8644.

Thank you,

A handwritten signature in black ink, appearing to read 'Eric Wojchik', written over a horizontal line.

Eric Wojchik, CCA
Conservation Planner
Polk County LWRD