Wisconsin Department of Natural Resources
Bureau of Watershed Management (WT/3)
101 S. Webster Street
PO Box 7921
Madison, WI 53707-7921
dnr.wi.gov

Final Report

Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs

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 Non Total Maximum Daily Load (TMDL)

Grant Information

Grantee - Governmental Unit Name	Grant Number
Waupaca County Land & Water Conservation Department	TMD68000AY18

Project Name: Little Wolf River - Ron Rieckmann Manure Management

Project Contact Name	Phone Number	E-mail Address
Brian Haase	(715) 258-6482	brian.haase@co.waupaca.wi.us

Site 1 - Location & Watershed Information — Additional sites may be added to the project by clicking on the [+Loc] button

Name of Cost-Share Recipient	Animal Units	Latitude	Longitude
Rieckmann Family Irrevocable Trust	199	44.4614	-88.8669

County	12-Digit HUC	12-Digit Watershed Name
Waupaca	040302021704	Bear Lake-Little Wolf River

Nearest Receiving Waterbody	Primary Waterbody addressed by project
Unnamed Tribute to Little Wolf River	Little Wolf River

Site 1 - BMP & Load Reduction Information — Additional BMPs for this site may be added by clicking on the [+] button

Best Management Practice Installed	Quantity	Unit of Measure	Performance Standard/Prohibition Addressed	Load Reduction: Phosphorus lbs/yr	Load Reduction: Nitrogen lbs/yr	Load Reduction: Sediment Tons/yr	Total Installation Cost
Manure Storage Systems	1	No.	Code(s) 4,7,9	236.7			$189,346.27
Manure Storage System Closure	1	No.	Code(s) 5,11,13				$12,878.75
Milking Center Waste Control Systems	1	No.	Code(s) 4,7	236.7			$23,941.46
Diversions	200	Feet	Code(s) 8	0			$2,137.50
Nutrient Management	300	acres	Code(s) 9	236.7			$0.00
Waste Transfer Systems	1	No.	Code(s) 4	236.7			$124,192.42

Model(s)/Methods Used to Calculate Load Reduction (check all that apply)

☐ STEPL ☒ SNAP+ ☐ BARNY ☐ RUSLE 2 ☐ Other (specify) _____

Site 1 - Compliance Requirements

Performance Standard or Prohibition Addressed	Chs. NR 151 or 243 Wis. Adm. Code Notice Type	Notice Letter Attached?	Compliance Achieved?	Compliance letter attached?
Manure storage facilities-new/significant alterations.	NR 151	No	Yes	Yes
Manure storage facilities-closure	NR 151	No	Yes	Yes
Process wastewater handling.	NR 151	No	Yes	Yes
Clean water diversions.	NR 151	No	Yes	Yes
Nutrient management.	NR 151	No	Yes	Yes
Prohibit overflow from manure storage facilities.	NR 151	No	Yes	Yes
Prohibit runoff from feedlot or stored manure into the state's waters.	NR 151	No	Yes	Yes

Check all of the true statements below.

☒ 1. A copy the compliance letter for site 1 has been placed in county files.

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2. The attached compliance letter for site 1:
   - ☒ a. has been provided by the county to the landowner and cost-share recipient;
   - ☒ b. identifies each of the performance standards & prohibitions (PS&Ps) on cropland and livestock facilities brought into compliance by the project, and listed in the table above;
   - ☒ c. identifies the name and location of the facility where compliance has been achieved; and
   - ☒ d. states that the landowner is obligated to maintain compliance with each PS&P addressed by the project in perpertuity regardless of future cost sharing.

Site 1 - Required attachments

Check the box if the required information for the site is attached:

- ☒ Photos of pre-and post-implementation of BMP(s)
- ☒ Aerial photo map of site with BMPs labeled
- ☒ Load reduction modeling documents
- ☐ Water quality monitoring results/summary, if applicable

Site 1 - Information

Narrative space will expand to fit

An old undocumented earthen lagoon that continuously overflowed was abandoned. An existing small concrete storage structure that leaked was improved with a new section of wall and access ramp. An new concrete storage structure was also constructed and equipped with both a manure and milkhouse transfer system. This structure will give the operators enough long-term waste storage, eliminating the need for spreading on frozen ground. No load reduction modeling was conducted for the diversion because it was installed to divert stormwater from entering the manure pit.

☒ 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

There is no manner that we are aware of to create a load reduction or model a load reduction, above, for elimination of a constantly overflowing manure storage (the abandoned earthen structure), but it would be a lot if we could. DNR Stream Biologist Dave Bohla sampled the waterway at the next culvert downstream of the farm but those Phosphorous numbers would be strengthened or diluted by additional cropland watershed.

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
Brian Haase	County Conservationist	02/24/2020

For DNR Use Only

☒ Received complete reports with all attachments ☒ Practices implemented were consistent with the grant agreement

Comments about this project:

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For DNR Use Only	
Name of Region Nonpoint Source Coordinator Eric Evensen	Date 03/31/2020
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.	

Waupaca County
Land & Water Conservation Department
811 Harding Street
Waupaca WI 54981
Fax: 715/258-6239 **Phone: 715/258-6245**

Brian Haase
County Conservationist
Ann Stearns
Program Assistant
Corey Schuelke
Engineering Technician
Greg Peterson
Engineering Technician
Dan McFarlane
Engineering Technician/GIS
Stefan Stults
Nutrient Mngmt. Specialist

January 23, 2020

Rieckmann Fam IR Trust
E7156 Garrity Rd
Manawa, WI 54949

Mr. Rieckmann,

Waupaca County is required to inform you in writing, as part of the TRM grant process, of your obligation to maintain compliance with the applicable state agricultural performance standards and prohibitions that were addressed by the TRM cost-share agreement for your farm located at T23N R13E Sec 13. These standards and prohibitions are outlined in Subchapter II (NR 151.02-NR 151.09) of Wisconsin Administrative Code NR 151 and are listed below. Keep in mind that you are now obligated to maintain compliance with each of the performance standards listed below in perpetuity regardless of future cost sharing. I encourage you to take the time to read them over carefully.

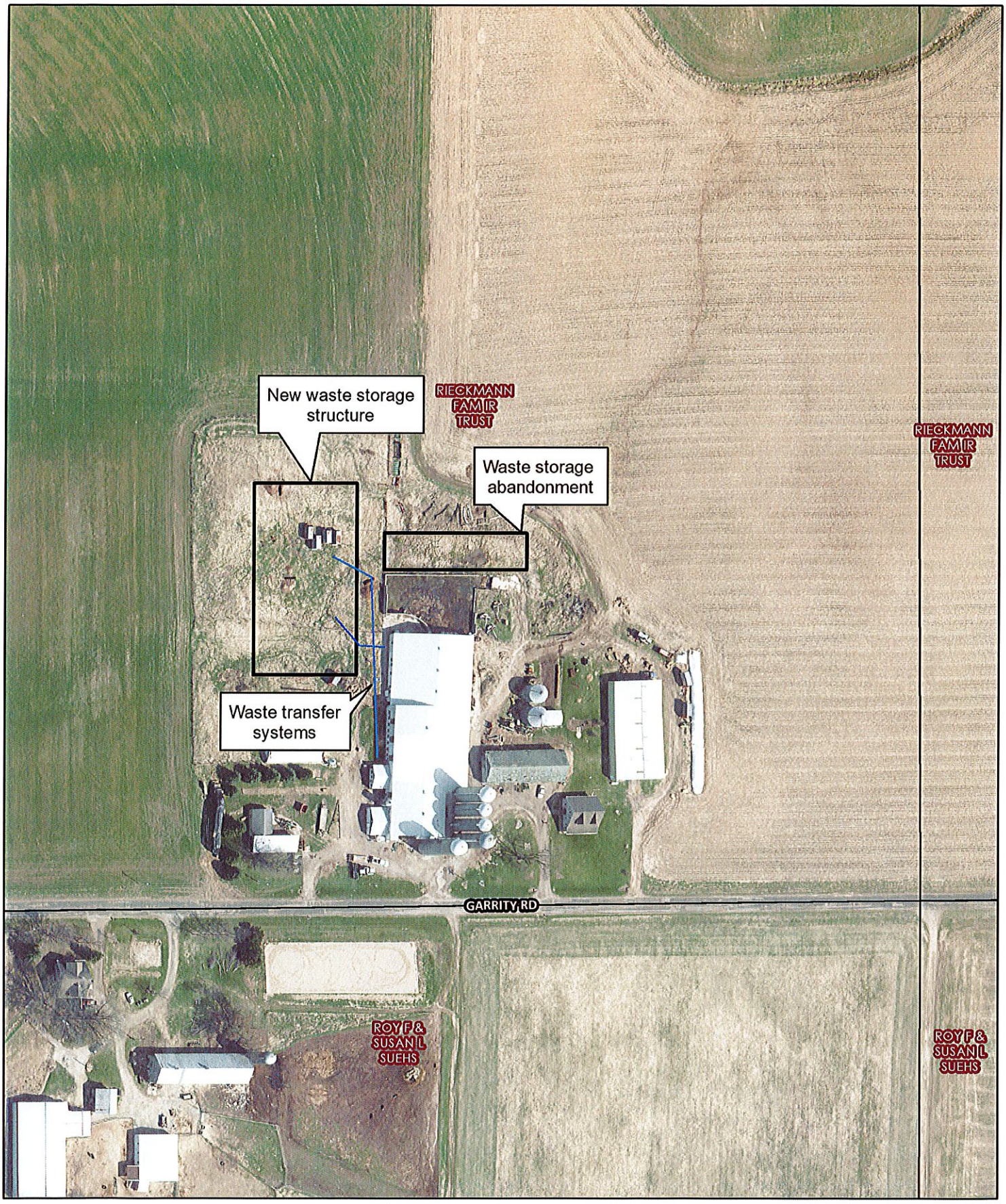
NR 151.05(2)	Manure storage facilities performance standards (New Construction and Alterations)
NR 151.06(2)	Clean Water Diversion
NR 151.07	Nutrient Management
NR 151.08(2)	Manure Management Prohibitions (A livestock operation shall have no overflow of manure storage facilities)
NR 151.08(4)	Manure Management Prohibitions (A livestock operation shall have no direct runoff from a feedlot or stored manure into waters of the state
NR 151.055(2)	Processed Wastewater Handling (No significant discharge to waters of the state)
NR 151.05(3)	Manure Storage Facilities Closure

Also, to further comply with NR 151.07 (Nutrient Management) and Section 51.08(4) of the Waupaca County Code of Ordinances, Waupaca County and the State of Wisconsin requires that you submit a copy of your Nutrient Management Plan (NRCS 590) to our office by April 15th of each year. Copies of your plan will be kept on file for potential review by DNR, DATCP or County staff.

If you have any questions regarding this issue or would like a full copy of Wisconsin Administrative Code NR 151, please feel free to call me at 715-258-6482.

Sincerely,

Brian Haase
County Conservationist
Waupaca County LWCD
715-258-6482

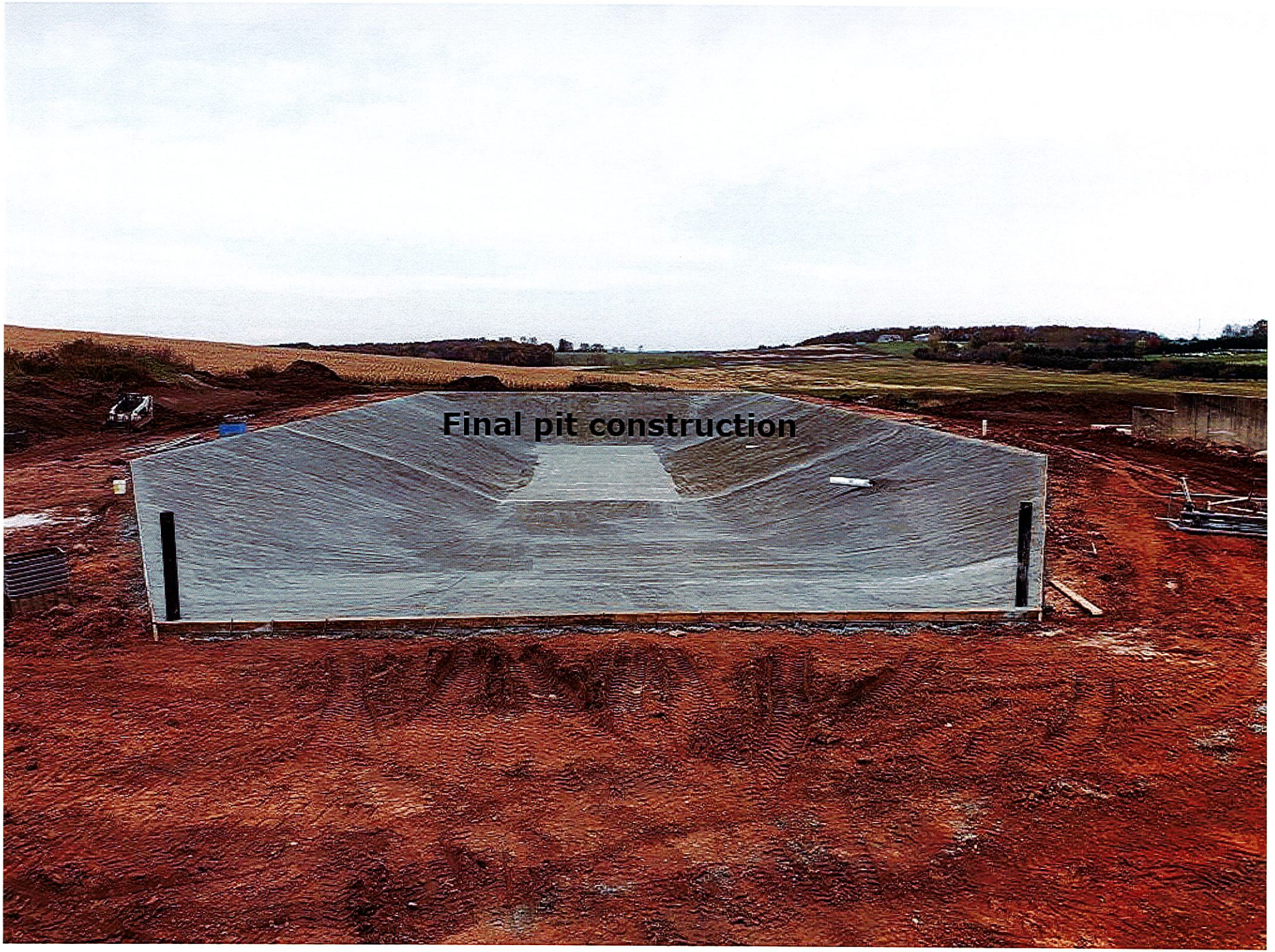


Imagery Date:
April, 2015

N
W E
S

0 50 100
Feet

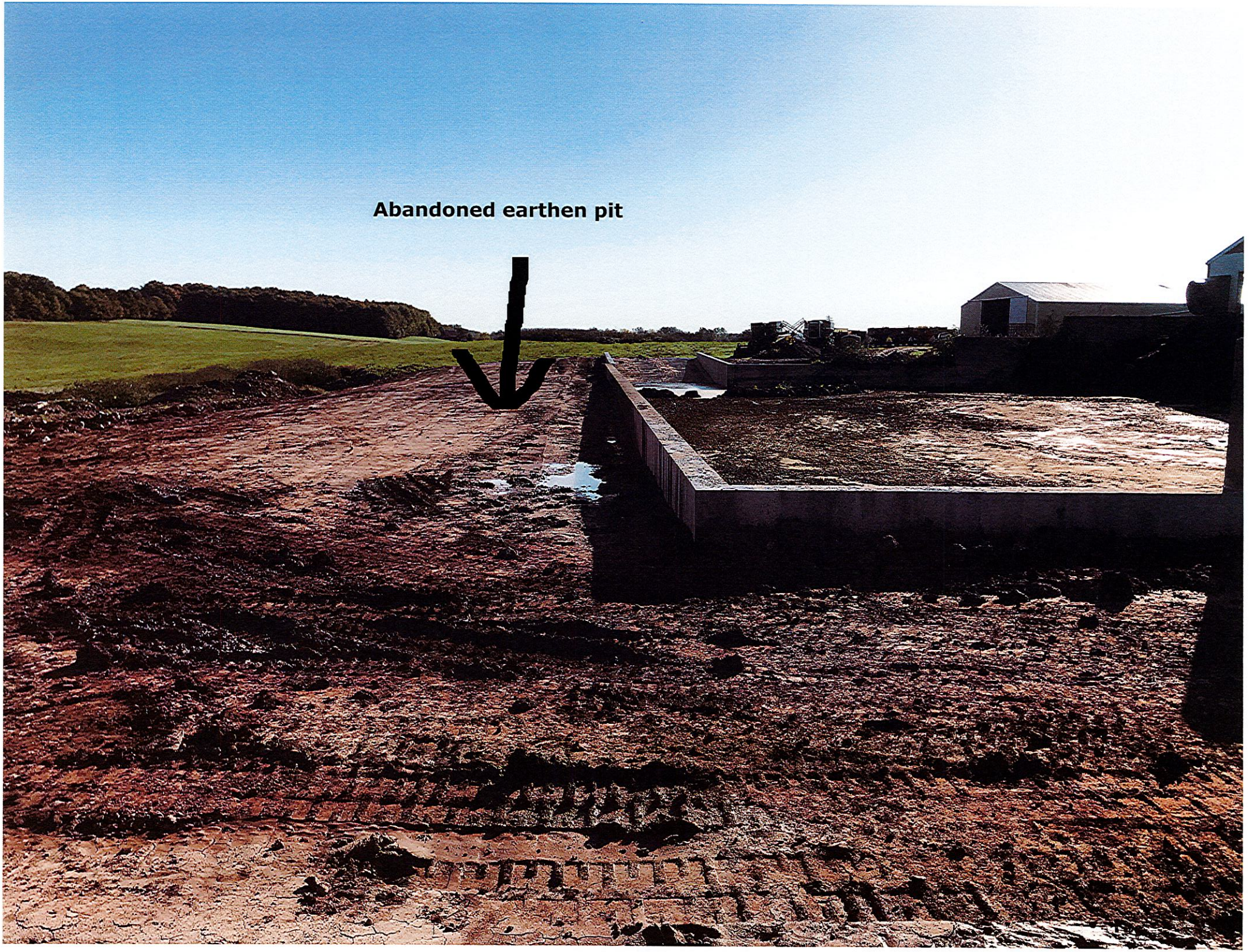
Area before new waste storage construction


Final pit construction


Existing concrete manure
pit before enhancement


Existing manure pit after enhancement

Overflowing earthen manure pit before abandonment


Abandoned earthen pit


Patz
Tundra
Pro II


Patz

FM10: Annual PI Report		Rieckmann Farms		Crop Rotation 2016 to 2022 - WSF built in 2019								PI Difference	PI Difference x Field Acres
												"No WSF" - "Yes WSF"	
Field Name	**Field Acreage**	**Field Rotational Average PI**	**P Index**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	Sum(2016-2019) minus Sum(2020-2023)	Negative means P Loss Positive means P Loss reduction
H1	24.9	3	Total	7.8	5.1	3.5	3.2	6.1	3.9	1.9	1.8	5.9	146.9
H2	31.7	4	Total	7.6	5.1	3.5	3.2	5.9	3.9	1.8	1.7	6.1	193.4
H3	38.7	3	Total	7.4	4.9	3.3	3.1	5.7	3.7	1.8	1.7	5.8	224.5
H4	11.7	5	Total	7.7	5.1	3.5	3.2	6.0	3.9	1.9	1.8	5.9	69.0
H5	27.8	3	Total	8.2	5.3	3.6	3.3	6.6	4.2	2.1	1.9	5.6	155.7
S01	10.3	4	Total	3.4	2.5	2.4	2.3	2.4	1.7	1.0	1.0	4.5	46.4
S02	25.8	4	Total	3.9	2.9	2.4	2.3	2.8	2.0	1.2	1.2	4.3	110.9

Total = 946.8 (4yr)

946.8/4 yr Rotation

= 236.7/yr

FM10: Annual PI Report

Reported For	Rieckmann_TRM
Printed	2020-02-03
Plan Completion/Update Date	2020-01-31
SnapPlus Version 19.1 built on 2019-12-26	
V:\LWCD\Nutrient_Management_TRM_Modeling \TRM_Modeling_Rieckmann\Rieckmann_TRM.snapDb	

Prepared for:
Rieckmann_TRM
attn:Rieckmann_TRM

Field Name	Soil Series & Symbol (critical)	Slope	Tillage	Rot Avg PI	PI	2016	2017	2018	2019	2020	2021	2022	2023
H1	HORTONVILLE HrC2	9	FCD-FCD-None-None-FCD-FCD-None-None	**4**	Total Particulate Soluble	7.8 6.8 0.9	5.1 4.2 1.0	3.5 1.7 1.8	3.2 1.4 1.8	6.1 5.8 0.3	3.9 3.6 0.3	1.9 1.4 0.5	1.8 1.3 0.5
H2	HORTONVILLE HrC2	9	FCD-FCD-None-None-FCD-FCD-None-None	**4**	Total Particulate Soluble	7.6 6.7 0.9	5.1 4.1 1.0	3.5 1.7 1.8	3.2 1.4 1.8	5.9 5.7 0.3	3.9 3.6 0.3	1.8 1.4 0.5	1.7 1.2 0.5
H3	HORTONVILLE HrC2	9	FCD-FCD-None-None-FCD-FCD-None-None	**4**	Total Particulate Soluble	7.4 6.5 0.9	4.9 3.9 1.0	3.3 1.6 1.7	3.1 1.3 1.7	5.7 5.5 0.3	3.7 3.4 0.3	1.8 1.3 0.5	1.7 1.2 0.5
H4	HORTONVILLE HrC2	9	FCD-FCD-None-None-FCD-FCD-None-None	**4**	Total Particulate Soluble	7.7 6.8 0.9	5.1 4.1 1.0	3.5 1.7 1.8	3.2 1.4 1.8	6.0 5.8 0.3	3.9 3.6 0.3	1.9 1.4 0.5	1.8 1.3 0.5
H5	HORTONVILLE HrC2	9	FCD-FCD-None-None-FCD-FCD-None-None	**4**	Total Particulate Soluble	8.2 7.2 1.0	5.3 4.3 1.0	3.6 1.8 1.8	3.3 1.5 1.8	6.6 6.2 0.3	4.2 3.9 0.4	2.1 1.5 0.6	1.9 1.3 0.6
S01	HORTONVILLE HnB	4	FCD-FCD-None-None-FCD-FCD-None-None	**2**	Total Particulate Soluble	3.4 2.6 0.9	2.5 1.6 0.9	2.4 0.7 1.7	2.3 0.6 1.7	2.4 2.2 0.2	1.7 1.4 0.3	1.0 0.6 0.4	1.0 0.5 0.4
S02	HORTONVILLE HnB	4	FCD-FCD-None-None-FCD-FCD-None-None	**2**	Total Particulate Soluble	3.9 2.9 1.0	2.9 1.8 1.1	2.4 0.8 1.6	2.3 0.7 1.6	2.8 2.5 0.3	2.0 1.6 0.3	1.2 0.6 0.5	1.2 0.6 0.6