2024 CSEM/PSAS 446 Soil and Water Conservation
Conservation Plan

I. Producer/location information

Date _____

Name of landowner(s) _____

Name of land manager(s) _____

Business or farm name _____

Address _____

City _____ **State** _____ **County** _____ **Zip code** _____

Property Location Information

Property Name/ number	Field name/ number	Township	Range	Section(s)	Acres	Land type (state, federal, private)	Own/ lease
Example:							
Jones Farm	*1*	*135*	*3E*	*21*	*30*	*state*	*lease*
Jones Farm	*2*	*135*	*3E*	*21*	*10*	*private*	*own*

Property Name/ number	Field name/ number	Township	Range	Section(s)	Acres	Land type (state, federal, private)	Own/ lease

II. Maps
   A. Soils map in folder or uploaded to D2L? _____
   B. "after" map (you may use the sheet in the Conservation Record booklet, field map or soils map)
      Use the Farm Map Legend on pages 6 and 7 of the Conservation Record to create a "before" map.
      Indicate ALL conservation practices the map.

III. Farm/ranch goal
IV. What is your overall goal for your property? (Example – primary income, hobby, wildlife,) This is NOT where you would document objectives for your field. This is your "touch stone" throughout the process. You should be asking yourself if each step fits your overall goals. For example, do my alternatives maintain my goal?

V. Resource Plan – Complete one table for each resource concern on your field(s). You should have at least three.
Collection and Analysis

Identify your resource concern

What are you seeing/experiencing on the land that indicates a possible problem?

What resource concern fits what you are seeing/experiencing? Name it and describe it.

Inventory/assess your natural resource

Examples: Count number of trees, fish; pasture density, area that is ponding.

Evaluate your resource inventory

Based on your assessment, does your natural resource meet its desired state?

Example: Your current soil erosion rate is 10T, is that OK?

Objectives - We are going to use a derivation of SMART objectives – these are for your field.
- **Specific**: Target a specific area for improvement.
- **Measurable**: Quantify or suggest an indicator of progress for measurable goals.
- **Achievable**: Specify who will do it and how.
- **Time-related**: Specify the target date or general time frame when the result(s) can be achieved

Decision Support

Develop Alternate Solutions

List as many solutions as you can think of. Think in terms of making your natural resource better, not
necessarily (but maybe) "fixed".

Evaluate Alternative Solutions

Explain why each alternative may or may not be doable.

Make Your Decision

List everything you are going to do.

Application and Evaluation

Implement Plan and Solutions

What are you going to do and when? Include information gathering, planning, applying for cost share,   etc.

Evaluate Plan Success and Adjust if necessary

(How will you evaluate? When? What tweaks might you make? When would you do those?)

Resource Concern – Example (yours should be more specific/ numbers, levels, more thorough.)

What are you seeing/experiencing?	*Noticing increased ponding, crusting, reduced plant growth*
Resource Concern And description	*Soil compaction - Soil compaction reduces infiltration and plant growth*
How did you inventory/assess?	*Used penetrometer, tracked plant growth*
Evaluate Resource – what did you find?	*Measurements indicate compaction, area significant*
Action needed? Y/N	*Yes*
Objectives	*Specific - Area between parking lot and WASCOB* *Measurable – reduce amount of area that ponds by 90%, improved plant growth by 65%* *Achievable – with some information and planning with USDA NRCS, agronomist help, I can do the work/make the changes* *Time – have increase infiltration each year for 4 years starting in 2024, increased plant growth starting in 2024*
Alternative Solutions	*#1 Deep Plow* *#2 Subsoiler* *#3 Chisel* *#4 Change equipment lanes* *#5 plant radishes*
Evaluate Alternative Solutions	*#1 and 2 – don't own equipment, may cause erosion.* *#3 own chisel, some erosion* *#4 long term solution, no equipment needs, doesn't solve short term*
Decision	*Plant radishes for cover crop* *Chisel once and change equipment lanes*
Implement Solutions	*Plant radishes 2023* *Chiseled in 2023* *Changed equipment lanes 2024*
Evaluate How? When?	*Check for improved infiltration, plant growth, penetrometer in 2024*
Adjust- what might you need to tweak	*Another radish cover crop or look into another cover crop* *Consider another pass with chisel if little infiltration improvement*

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Resource Concern and description	
How did you inventory/assess?	
Evaluate Resource – what did you find?	
Action needed? Y/N	
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