Emergency Winter Application Protocol

The following is the emergency winter manure application protocols that will be followed if liquid manure needs to be applied onto frozen or snow covered soils due to an emergency situation.

Liquid manure can only be spread on frozen and snow covered ground for emergency purposes. Winter spreading of liquid manure will only be done as a last resort to reduce the manure levels in the manure storage basin to prevent any overtopping. If emergency winter applications are necessary the manure storage facilities will be lowered to the required freeboard level. The DNR will be notified prior to any emergency winter applications. Fields or portions of fields that will be used for emergency winter liquid manure application will be the following fields:

Fields – Fields will be identified in the fall of 2013 for the 2013-14 winter season. Winter spreading restriction maps will be created based on fields chosen.

Notes: No winter spreading in areas containing SWQMA

Maximum application rate will be **3,500 gal/acre for areas of fields with slope of 2 to 6% and 7,000 gal/acre for areas of fields with a slope of 0 to 2%.**

The following fields have been selected for winter solid manure applications:

Fields – Fields will be identified in the fall of 2013 for the 2013-14 winter season. Winter spreading restriction maps will be created based on fields chosen.

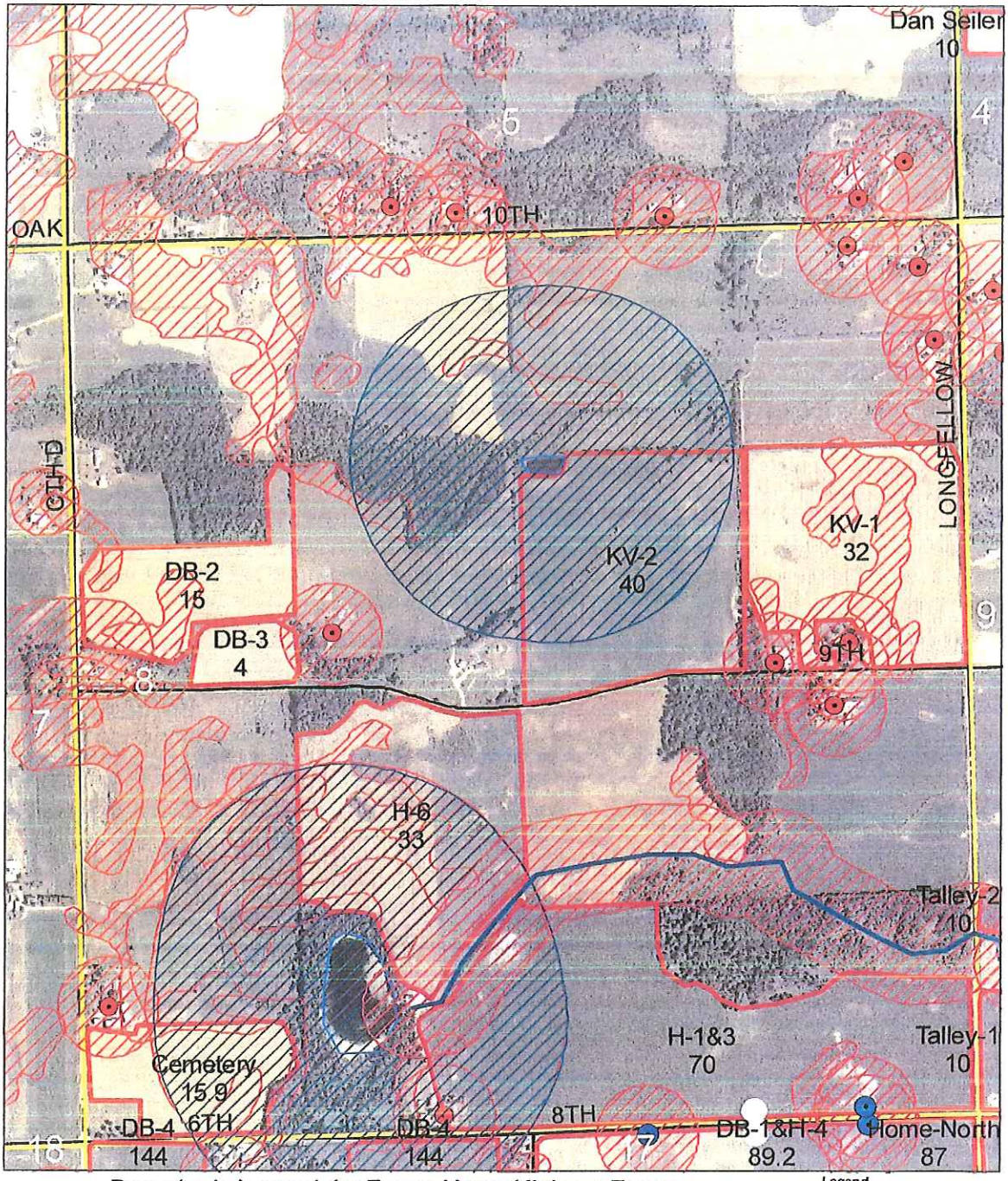
The winter PI ratings are shown on the following pages. (Not applicable at this time because fields have not yet been selected for the 2013-14 winter season.)

TABLE 4 Restrictions for Surface Applying Solid Manure on Frozen and Snow Covered Ground			
Criteria	**Restrictions for fields With 0-6% slopes**	**Restrictions for fields with slopes > 6% and up to 9%**	**Restrictions for fields with slopes greater than 9%**
Required fall tillage practice prior to application	Chisel or moldboard plow, no-till or a department approved equivalent[A]	Chisel or moldboard plow, no-till or department approved equivalent[A]	Not allowed
Minimum % solids allowed	12%	> 20%	Not allowed
Application rate (cumulative per acre)	Not to exceed 60 lbs. P2O5 per winter season, the following growing season's crop P2O5 budget taking into account nutrients already applied, or phosphorus application restrictions specified in a department approved nutrient man-agement plan, whichever is less	Not to exceed 60 lbs. P2O5 per winter season, the following growing season's crop P2O5 budget taking into account nutrients already applied, or phosphorus application restrictions specified in a department approved nutrient man-agement plan, whichever is less	Not allowed
Setbacks from surface waters	No application allowed within SWQMA	No application allowed within 2.0 x SWQMA	Not allowed
Setbacks from downslope areas of channelized flow, vegetated buffers, and wetlands	200 feet	400 feet	Not allowed
Setbacks from direct conduits to groundwater	300 feet	600 feet	Not allowed

[A] All tillage and farming practices shall be conducted in accordance with the following requirements; 0-2% slope = no contouring required, >2-6% slope = tillage and practices conducted along the general contour, >6% slope = tillage and farming practices conducted along the contour. The department may approve alternative tillage practices on a case-by-case basis in situations where conducting practices along the contour is not possible. Allowances for application on no-till fields only apply to fields where no-till practices have been in place for a minimum of 3 years.

TABLE 5 Frozen and Snow Covered Ground Restrictions – Emergency Surface Applications of Liquid Manure			
Criteria	**Restrictions for fields with 0-2% slopes**	**Restrictions for fields with >2-6% slopes**	**Restrictions for fields with slopes greater than 6%**
Required fall tillage practice prior to application	Chisel or moldboard plow or depart-ment approved equivalent[A]	Chisel or moldboard plow or depart-ment approved equivalent[A]	Not allowed
Application rate (cumulative per acre)	Maximum application volume of 7,000 gallons per acre per winter season, not to exceed 60 lbs. P2O5, the following growing season's crop P2O5 budget taking into account nutrients already applied or other phosphorus applica-tion restrictions specified in a depart-ment approved nutrient management plan, whichever is less	Maximum application volume of 3,500 gallons per acre per winter season, not to exceed 30 lbs. P2O5, the following growing season's crop P2O5 budget taking into account nutrients already applied, or other phosphorus applica-tion restrictions specified in a depart-ment approved nutrient management plan, whichever is less	Not allowed
Setbacks from surface waters	No application allowed within SWQMA	No application allowed within SWQMA	Not allowed
Setbacks from downslope areas of channelized flow, vegetated buffers, wetlands	200 feet	200 feet	Not allowed
Setbacks from direct conduits to groundwater	300 feet	300 feet	Not allowed

[A] All tillage and farming practices shall be conducted along the contour in accordance with the following requirements; 0-2% slope = no contouring required, >2-6% slope = tillage and practices conducted along the general contour. The department may approve alternative tillage practices on a case-by-case basis in situations where conducting practices along the contour is not possible



Duescher's Legendairy Farms,Home,Kleiman Farms
Winter, Hazard Map.

N

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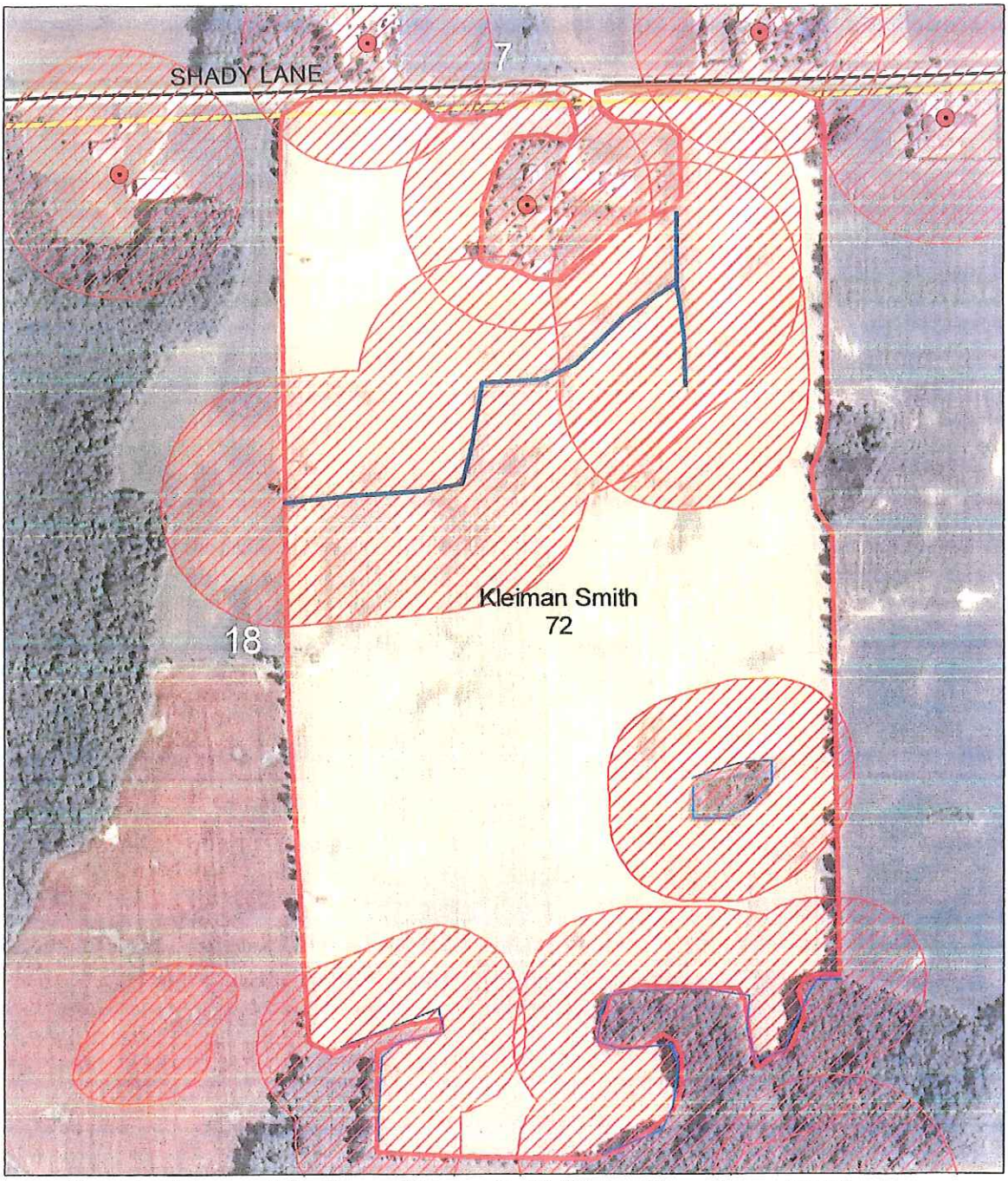
Crop Consulting
CCA# 14151
920-255-3303

DB-2 + DB-3 = Rankin
H-1&3 + H-6 = Hunsaders



Duescher's Legendairy Farms,Kleiman Smith Winter Hazard Winter, Hazard Map.

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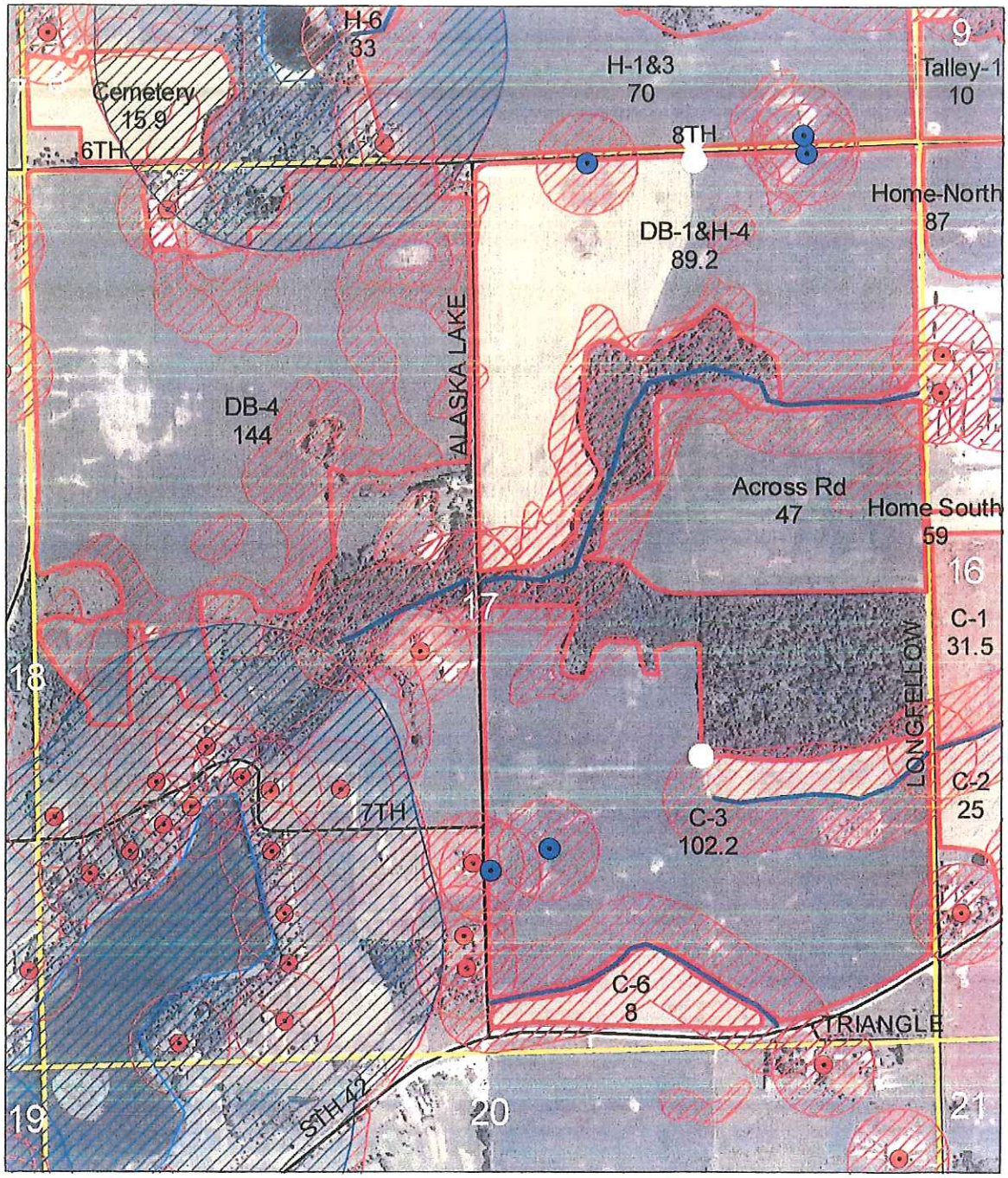
920-255-3303

Kleiman Smith = Smith

Legend

- Intermittent Streams
- 300Ft Stream Buffer
- Lakes_and_Ponds
- Lakes_&_Ponds SWQMA
- Wetland_edge
- Wetland_edge_200ft Buffer
- kduescher
- posible _well
- 300 Ft well buffer
- No Winter Spreading >9%
- Kewaunee Section Lines

N



Duescher's Legendairy Farms,Home,West Farms
Winter, Hazard Map.

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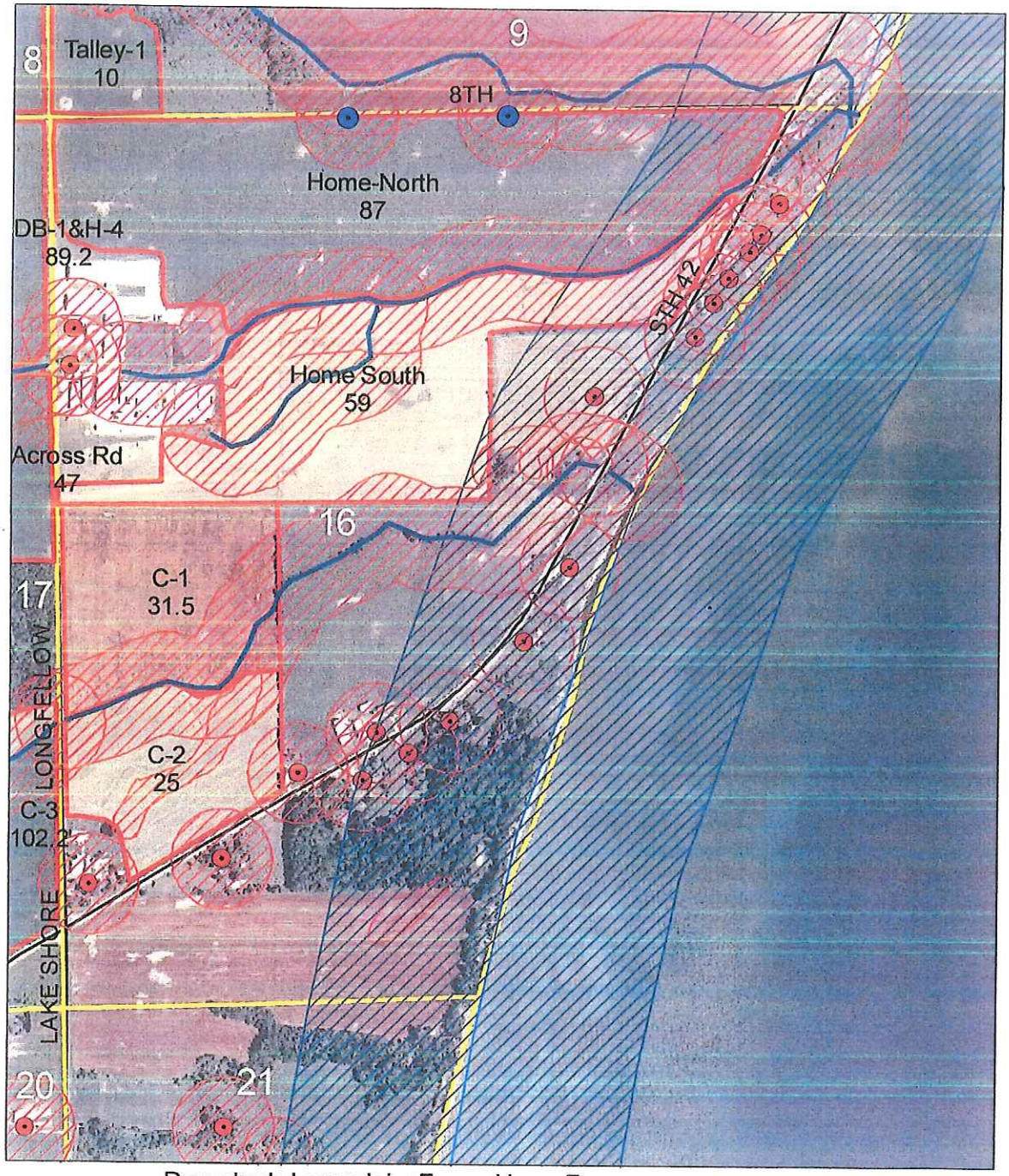
920-255-3303

C-6 = Cmeyla-S
C-3 = Cmeyla-W
Across Rd = Longfellow West
DB-1&H-4 = 8th Rd South
DB-4 = Bosdech (See field id map for exact boundaries of the Bosdech field)

Legend
Tile vent
300ft Tile Vent buffer
Manure Pipe
Intermittent Streams
300Ft StreamBuffer
lakes_and_Ponds
lakes_&_Ponds SWQMA
kduescher
posible_well
300 Ft well buffer
No Winter Spreading >5%
Kewaunee Section Lines
Kewaunee Roads

N



Duescher's Legendairy Farms,Home Farm
Winter, Hazard Map.

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C-1 + C-2 = Cmeyla E

.

Home North + Home South = Longfellow East & Hawks 2 (from Stauber Farms)

Legend

- Tile vent
- 300ft Tile Vent buffer
- Manure Pipe
- Intermittent Streams
- 300ft StreamBuffer
- Lakes_and_Ponds
- Lakes_&_Ponds SWQMA
- fduescher
- possible_well
- 300 Ft well buffer
- No Winter Spreading >5%
- Kewaunee Section Lines
- Kewaunee Roads

N