Regenerative Agriculture

By: Shane New


Ford
1410924

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SUSTAINABILITY

Only 60 Years of Farming Left If Soil Degradation Continues

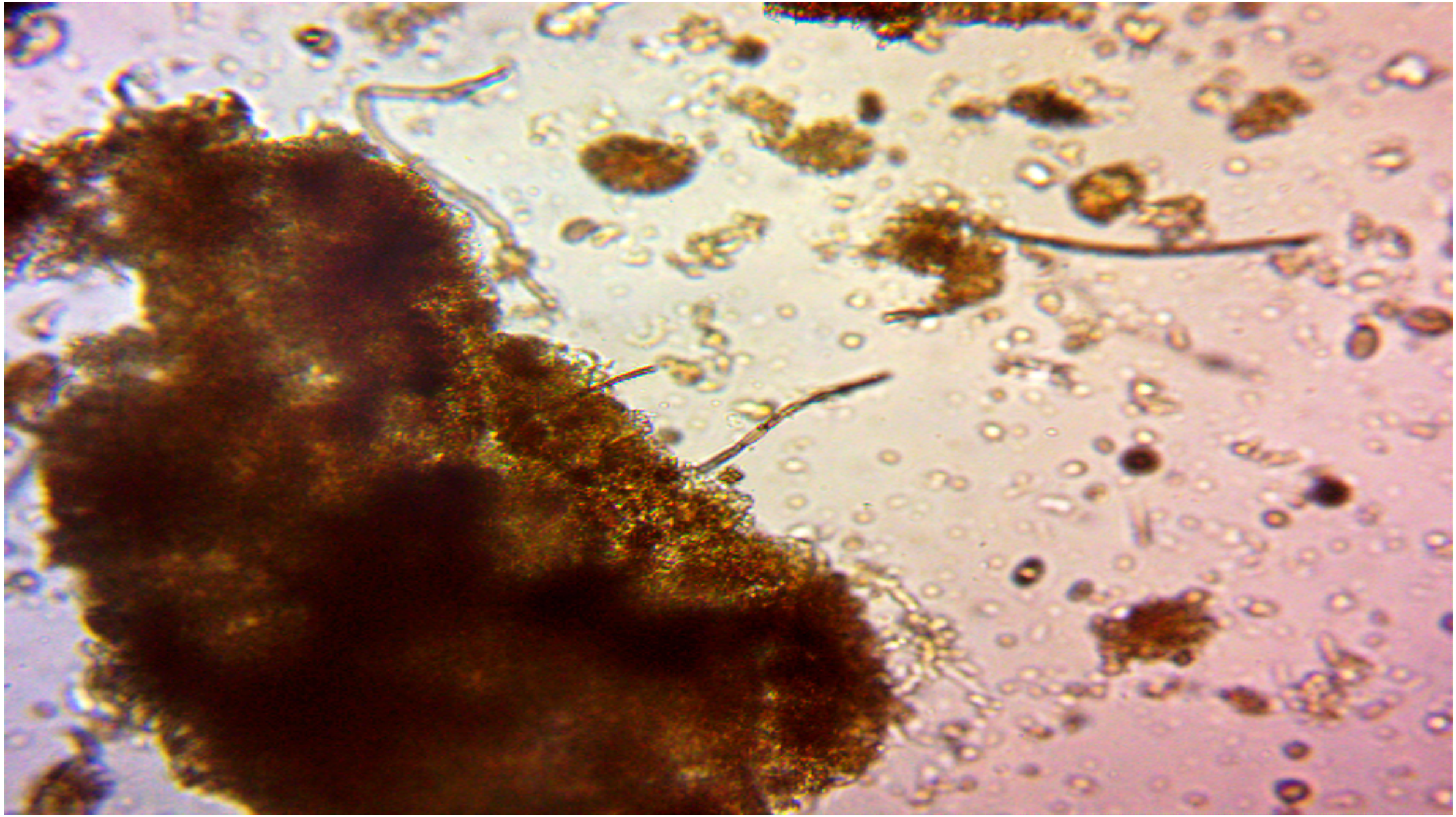
Generating three centimeters of top soil takes 1,000 years, and if current rates of degradation continue all of the world's top soil could be gone within 60 years, a senior UN official said

By Chris Arsenault (Thomson Reuters Foundation), Dec. 5, 2014

The causes include chemical-intensive farming, plowing or tilling, current livestock management, deforestation, and global warming. About 1/3 of the world's soil has already been degraded.


What's missing?
Understanding The Principles Of Mother Nature. Then Learning how to Mimicking Them In Production Agriculture.

Rule Number One:
Stop Tillage Soil Should Not Be Exposed



Rule Number Two:
Build Cover On The Soil Surface


13:16
°C/°F
USDA NRCS


°C/°F

Rule Number Three:
Animal Impact

Rule Number Four:
Diversity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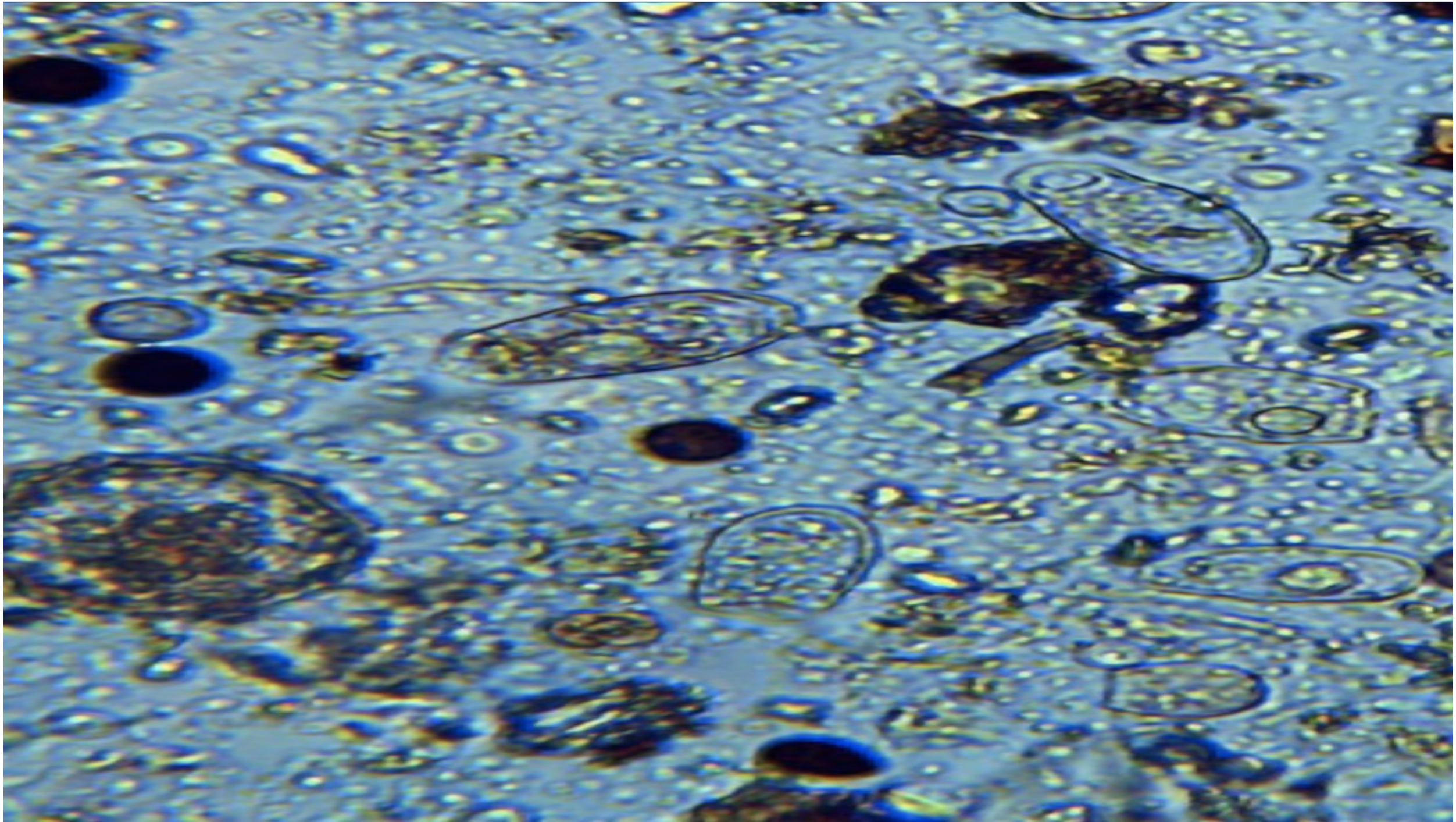

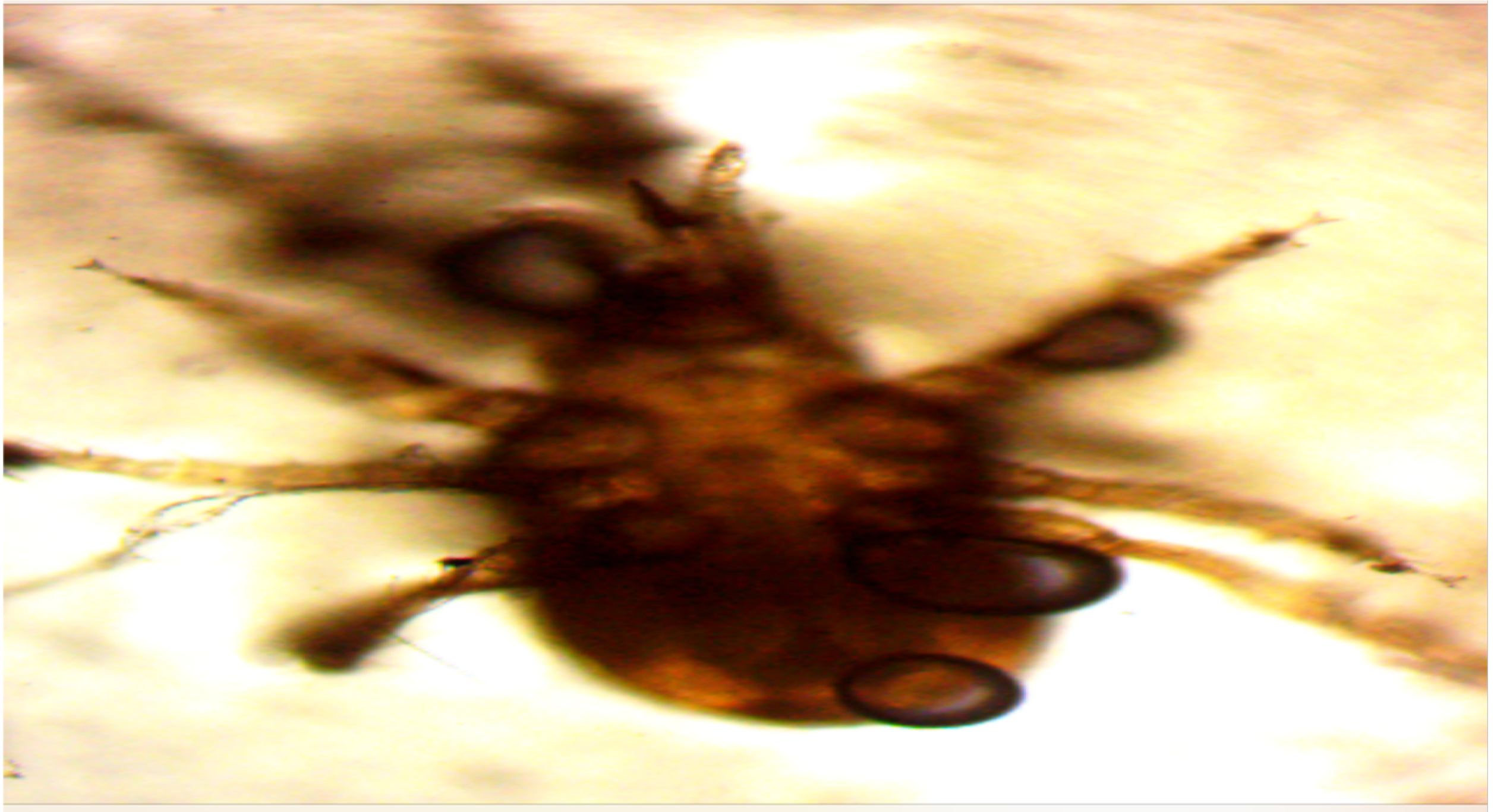

Bio Corr

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NIR Analysis Report

NEW, SHANE
11760 254TH RD
HOLTON KS 66436

Invoice No. : 1245894
Date Received : 10/06/2017
Date Reported : 10/09/2017
Lab Number : 9526

Results For : SHANE NEW
Sample ID :
Description : WHOLE CORN

	Analysis As Received	Analysis Dry Basis
Moisture, %	14.65	0.00
Dry Matter, %	85.35	100.00
PROTEIN		
Crude Protein, %	7.2	8.4
FIBERS		
Acid Detergent Fiber, %	3.4	4.0
Neutral Detergent Fiber, %	10.2	12.0
ENERGIES		
TDN Est., %	73.5	86.2
Net Energy Lact, MCal/lb	0.7637	0.8947
Net Energy Maint, MCal/lb	0.8243	0.9657
Net Energy Gain, MCal/lb	0.5639	0.6606
Metabolizable Energy MCal/lb	1.2075	1.4147
QUALITY VALUE		
Relative Feed Value		665
MINERALS		
*Calcium, % Ca	0.04	0.05
*Phosphorus, % P	0.24	0.28
*Potassium, % K	0.32	0.38
*Magnesium, % Mg	0.10	0.12
*Zinc, ppm Zn	21.6	25.4
*Iron, ppm Fe	83	97
*Manganese, ppm Mn	5	5
*Copper, ppm Cu	2.1	2.4
*Sulfur, % S	0.09	0.11
*Sodium, % Na	0.01	0.01
*Molybdenum, ppm Mo	0.33	0.39

*-Result By Wet Chemistry
Mineral Analysis by ICAP as of January 19, 2009

Reviewed By : Rebecca Kern 10/10/2017 **Copy : 1** **Page 1 of 1**

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Biological Soil Analysis Report

NEW, SHANE
11760 254TH RD
HOLTON KS 66436

Invoice No. : 1244434
Date Received : 09/21/2017
Date Reported : 09/25/2017

Results For : SHANE NEW
Sample ID 1 : SAMPLE 1
Sample ID 2 :
Lab No. : 10666

Sample ID 3 :
Sample ID 4 :

Haney - Soil Health Analysis

1:1 Soil pH	5.9	ICAP Sulfur, ppm S	11
1:1 Soluble Salts, mmho/cm	0.24	ICAP Calcium, ppm Ca	524
Excess Lime Rating	NONE	ICAP Magnesium, ppm Mg	152
Organic Matter, %LOI	5.9	ICAP Sodium, ppm Na	54
WDRF Buffer pH	6.3	ICAP Aluminum, ppm Al	472.90
Soil Respiration CO_2-C, ppm C	98.1	**Calculations**	
Water Extract		Microbially Active Carbon (%MAC)	15.7
Total Nitrogen, ppm N	49.7	Organic C : Organic N	15.6
Organic Nitrogen, ppm N	39.8	Organic N : Inorganic N	4.2
Total Organic Carbon, ppm C	623	Organic Nitrogen Release, ppm N	25.1
H3A Extract		Organic Nitrogen Reserve, ppm N	14.7
Nitrate, ppm NO_3-N	6.3	Organic Phosphorus Release, ppm P	5.8
Ammonium, ppm NH_4-N	3.1	Organic Phosphorus Reserve, ppm P	6.5
Inorganic Nitrogen, ppm N	9.4	**Soil Health**	
Total (ICAP) Phosphorus, ppm P	36	Soil Health Calculation	26.25
Inorganic (FIA) Phosphorus, ppm P	24.2	Cover Crop Suggestion	10% Legume 90% Grass
Organic Phosphorus, ppm P	6.5		
ICAP Potassium, ppm K	80		
ICAP Zinc, ppm Zn	1.35		
ICAP Iron, ppm Fe	326.5		
ICAP Manganese, ppm Mn	6.0		
ICAP Copper, ppm Cu	0.88		

Reviewed By : Lance Gunderson 9/26/2017 Copy : 1

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Haney - Soil Health Analysis Contd.

Nutrient Quantity Available for Next Crop	
Nitrogen, lbs N/A	82.8
Phosphorus, lbs P_2O_5/A	68.9
Potassium, lbs K_2O/A	95.5
Nutrient Value, $/A	127.60

Nitrogen Savings by using the Haney Test	
Traditional evaluation, lbs N/A	15.2
Haney Test N evaluation, lbs N/A	82.8
Nitrogen Difference, lbs N/A	67.6
N savings, $/A	43.24

Recommendations
In Actual Pounds of Plant Nutrients per Acre

N Credit : Clover - 75

Sub-Soils :

Crop	(Haney) Triticale, T/A
Yield	**10**
Nitrogen N	220
Phosphorus P_2O_5	35
Potassium K_2O	100
Sulfur S	31
Zinc Zn	0
Magnesium Mg	0
Iron Fe	0
Manganese Mn	0
Copper Cu	0
Lime, ECC Tons/Acre	0.0

Crop	(Haney) Triticale, T/A
Yield	**12**
Nitrogen N	300
Phosphorus P_2O_5	45
Potassium K_2O	125
Sulfur S	41
Zinc Zn	0
Magnesium Mg	0
Iron Fe	0
Manganese Mn	0
Copper Cu	0
Lime, ECC Tons/Acre	0.0

ant_fhsu@hotmail.com

Reviewed By : Lance Gunderson

9/26/2017

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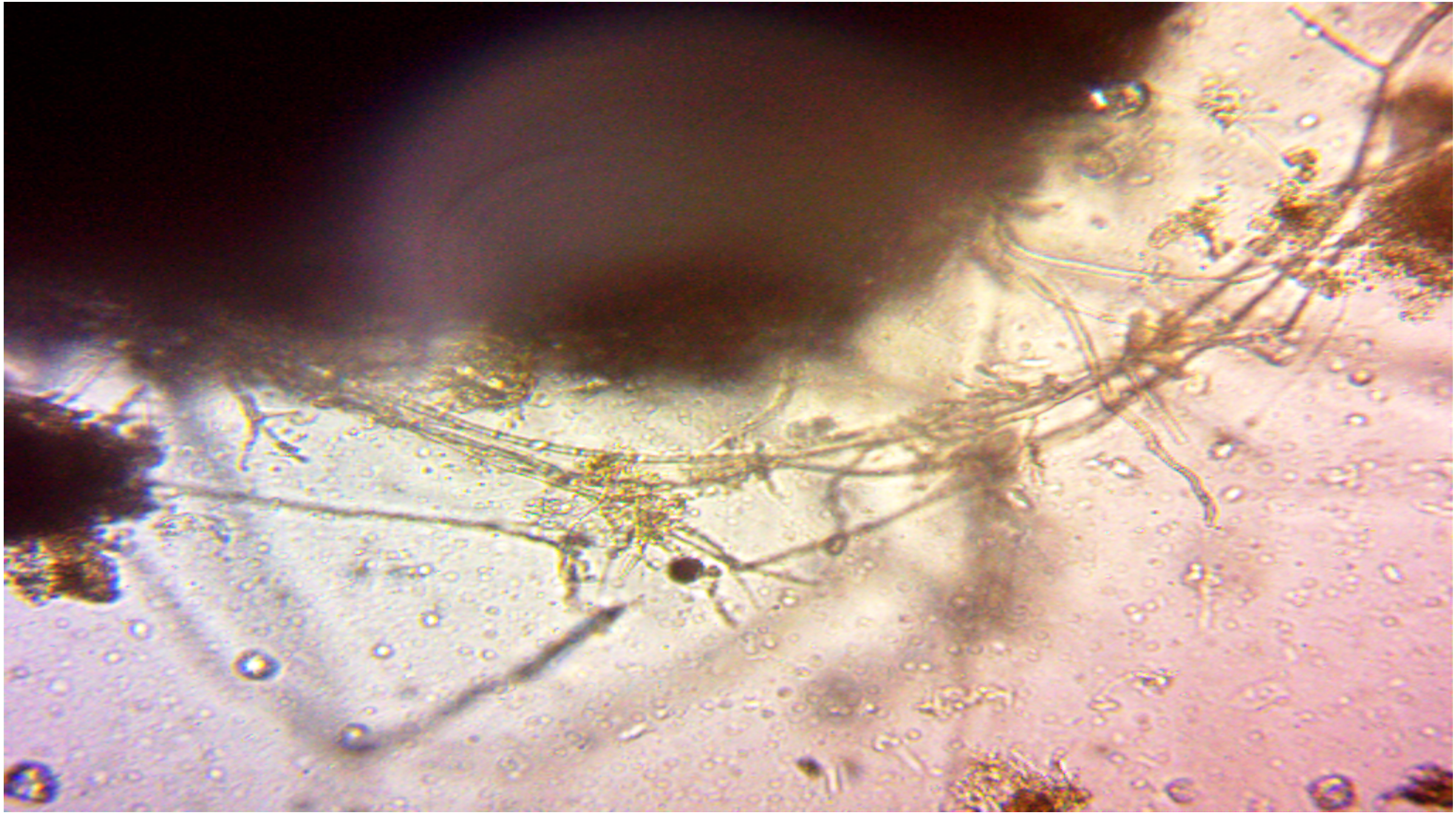


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Family Farms
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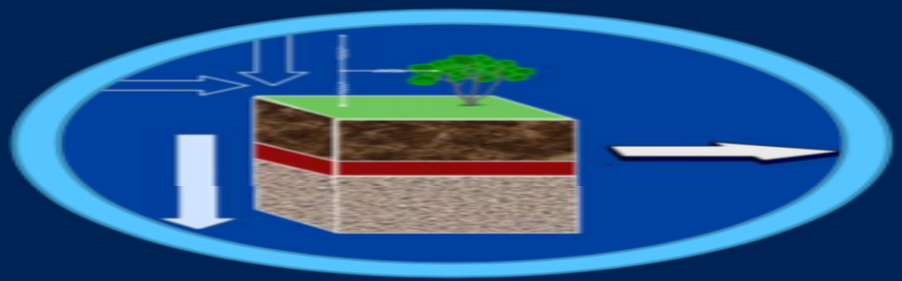

Outreach

Budget &
Timeline

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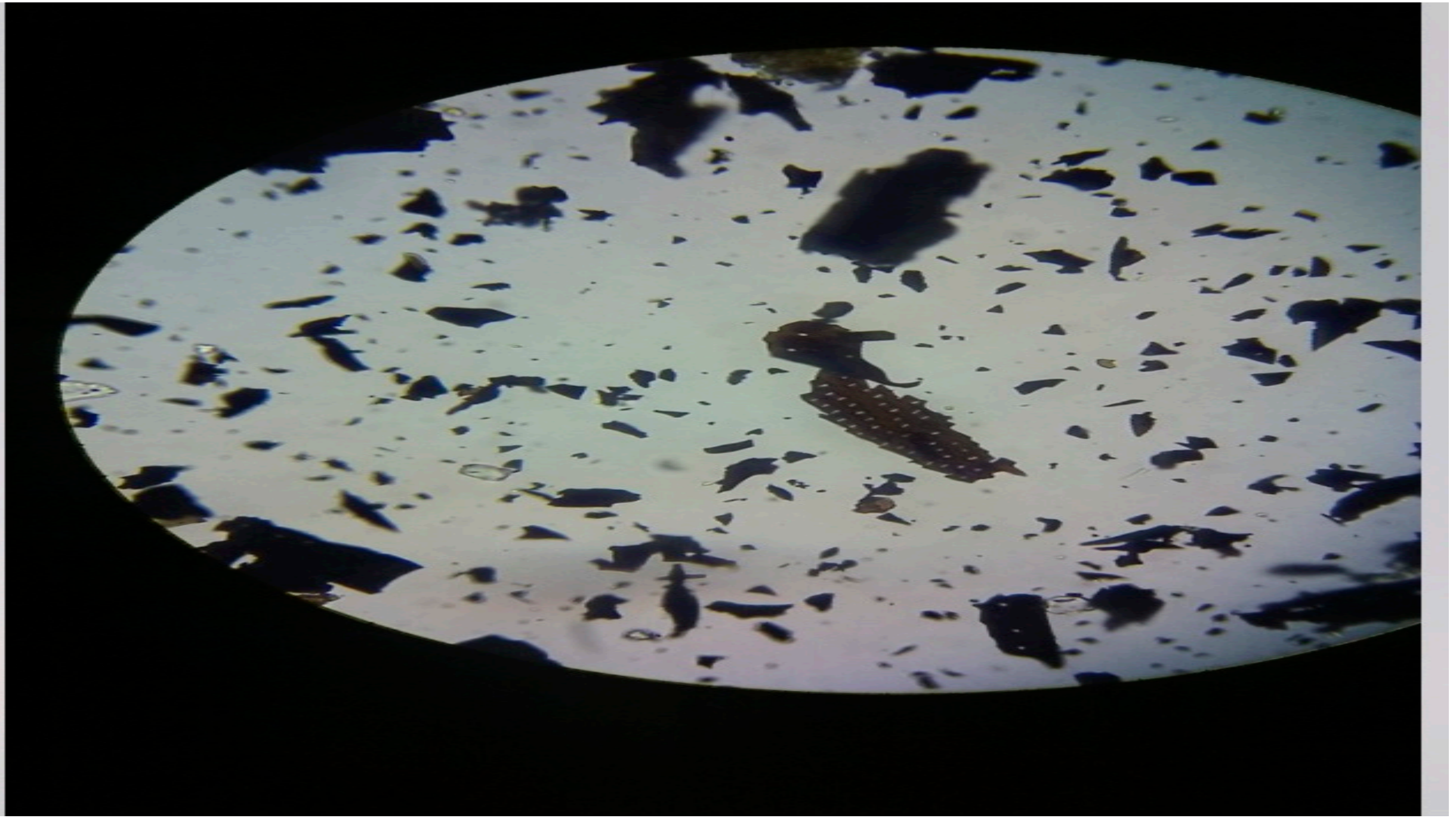
Whole

Monitoring

- Solar radiation
- Weather
- Vegetation
- Soil properties
- Infiltration
- Surface water
- Groundwater




You can't go back and
change the beginning,
but you can start where
you are and change
the ending.
C.S. LEWIS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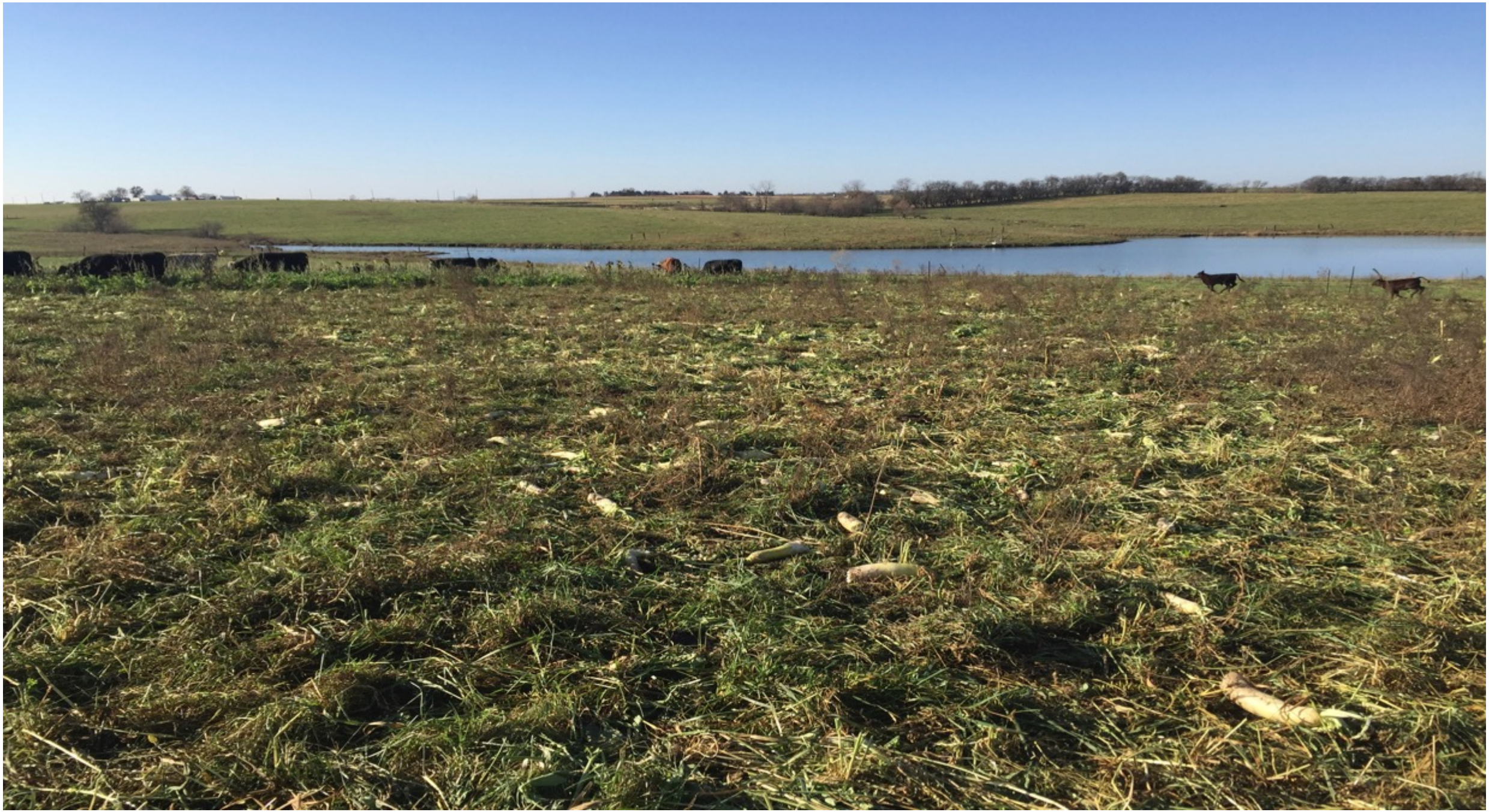
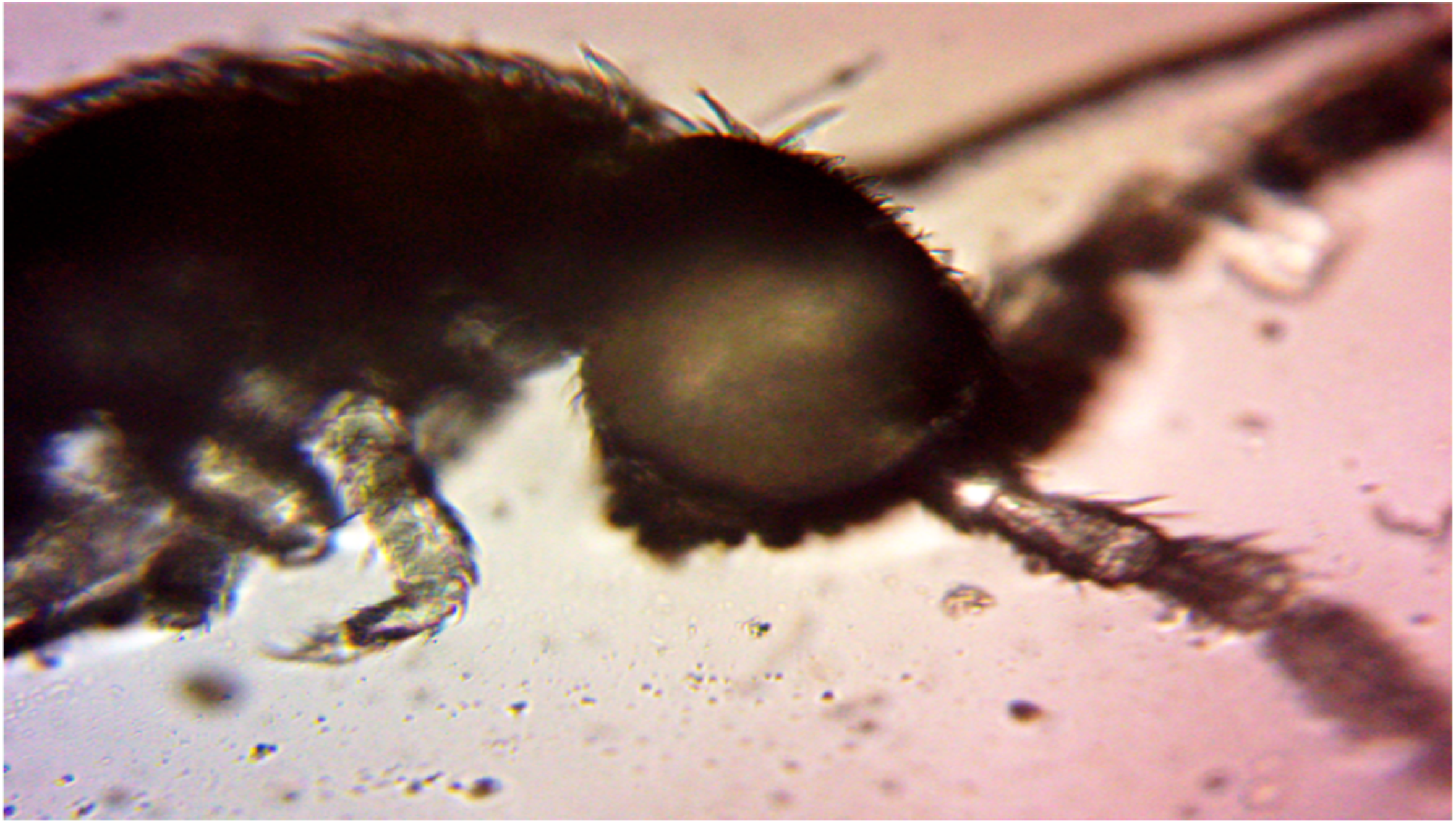
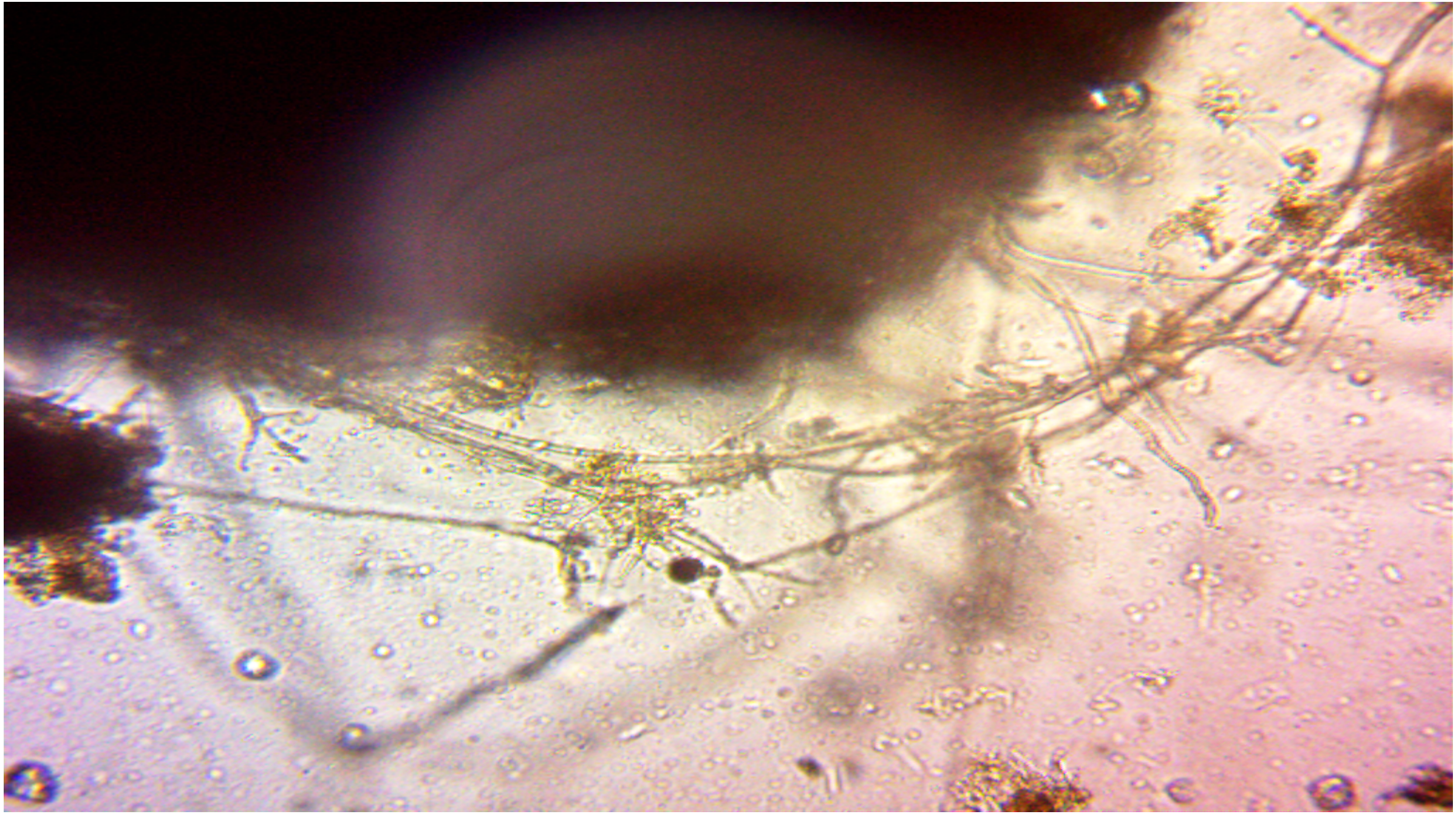



CASE





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