

Suspended Solids in and Turbidity of Runoff from Green Roofs

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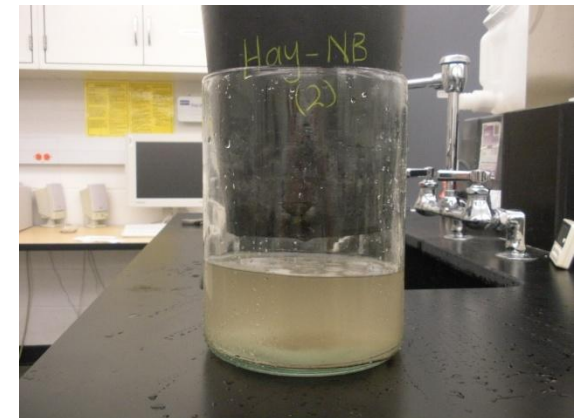
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Outline

- Introduction – Why?
- Materials and Methods – How?
- Results – What?
- Summary – What now?



Introduction



Materials and Methods

- Growing media
- Water
- Vegetation
- Light



Growing Media

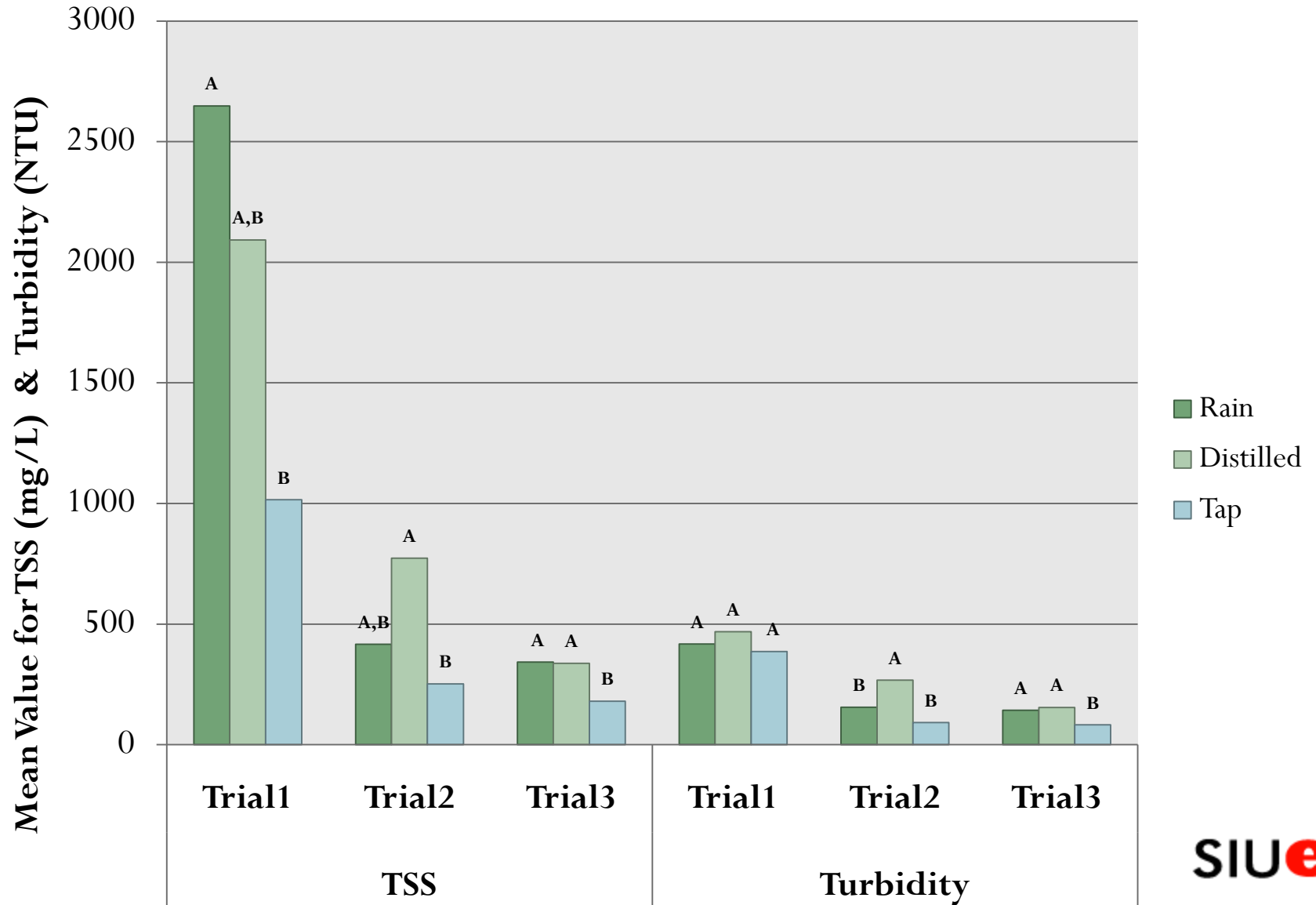
Media	Description
Arkalyte	Clay heated to 1000 °C
Bottom ash	Ash from coal power plant
Haydite	Shale heated to 1000 °C
Lava	Volcanic rock



Water



Initial Results – Water Source



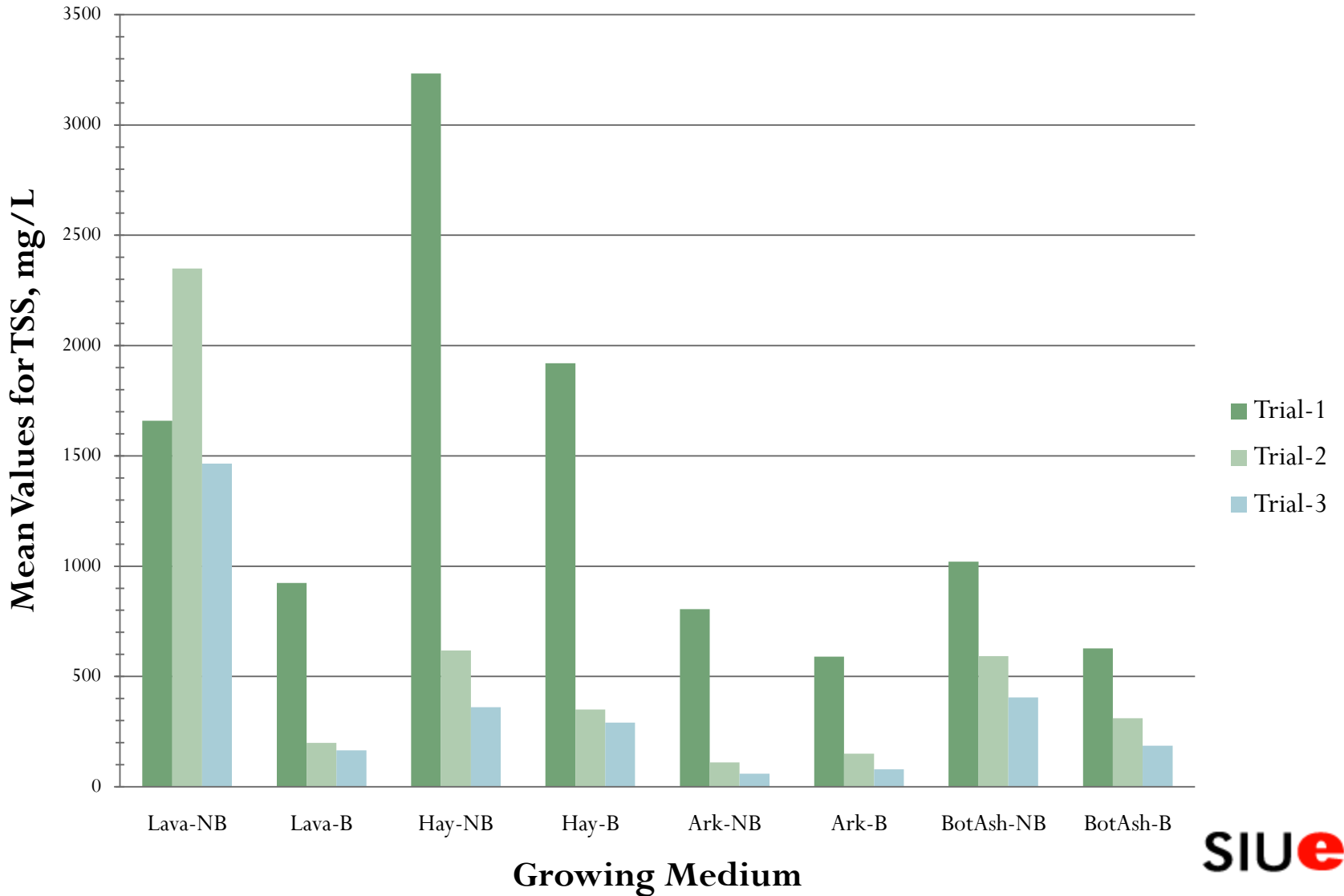
Vegetation



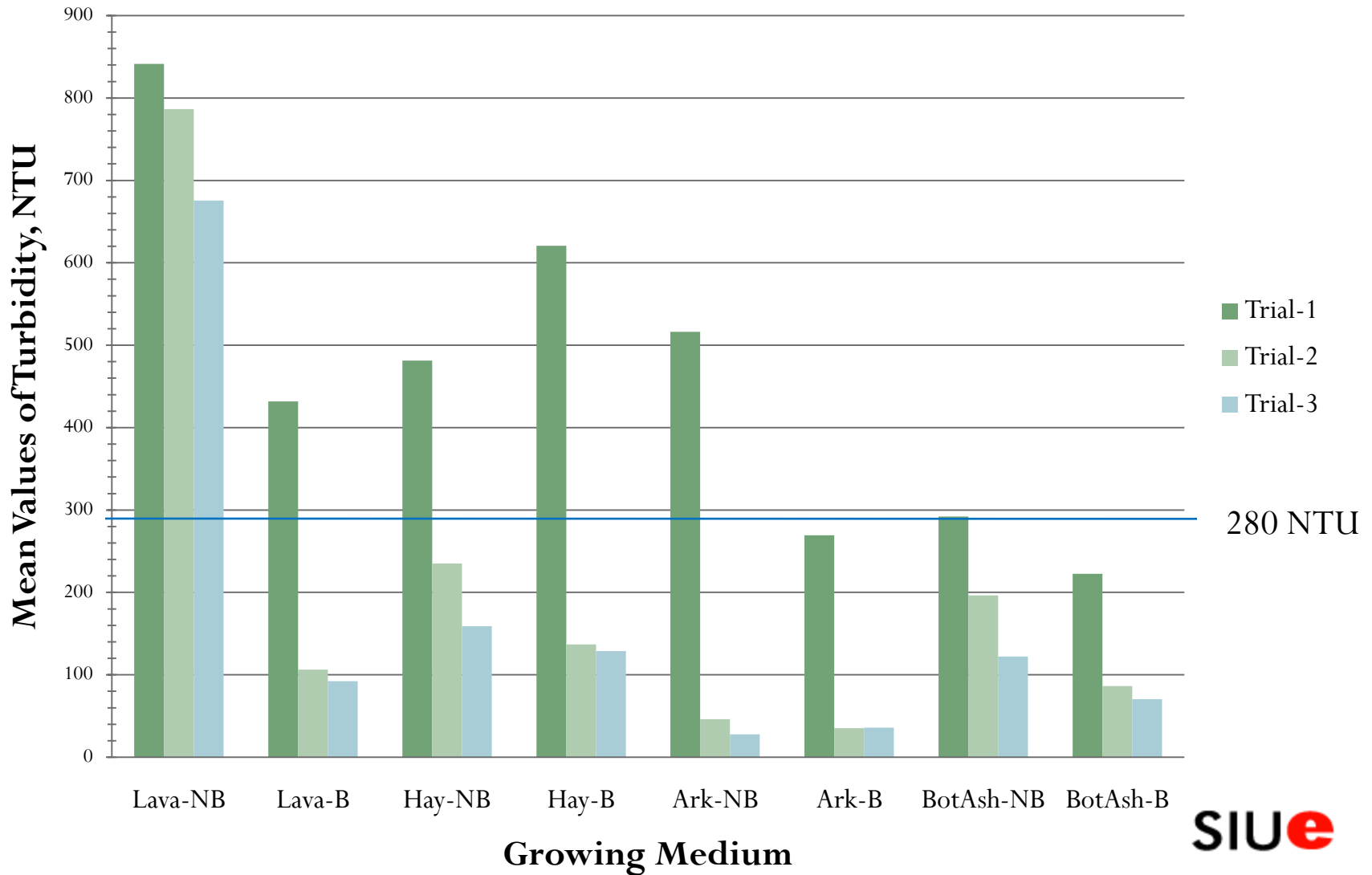
Light



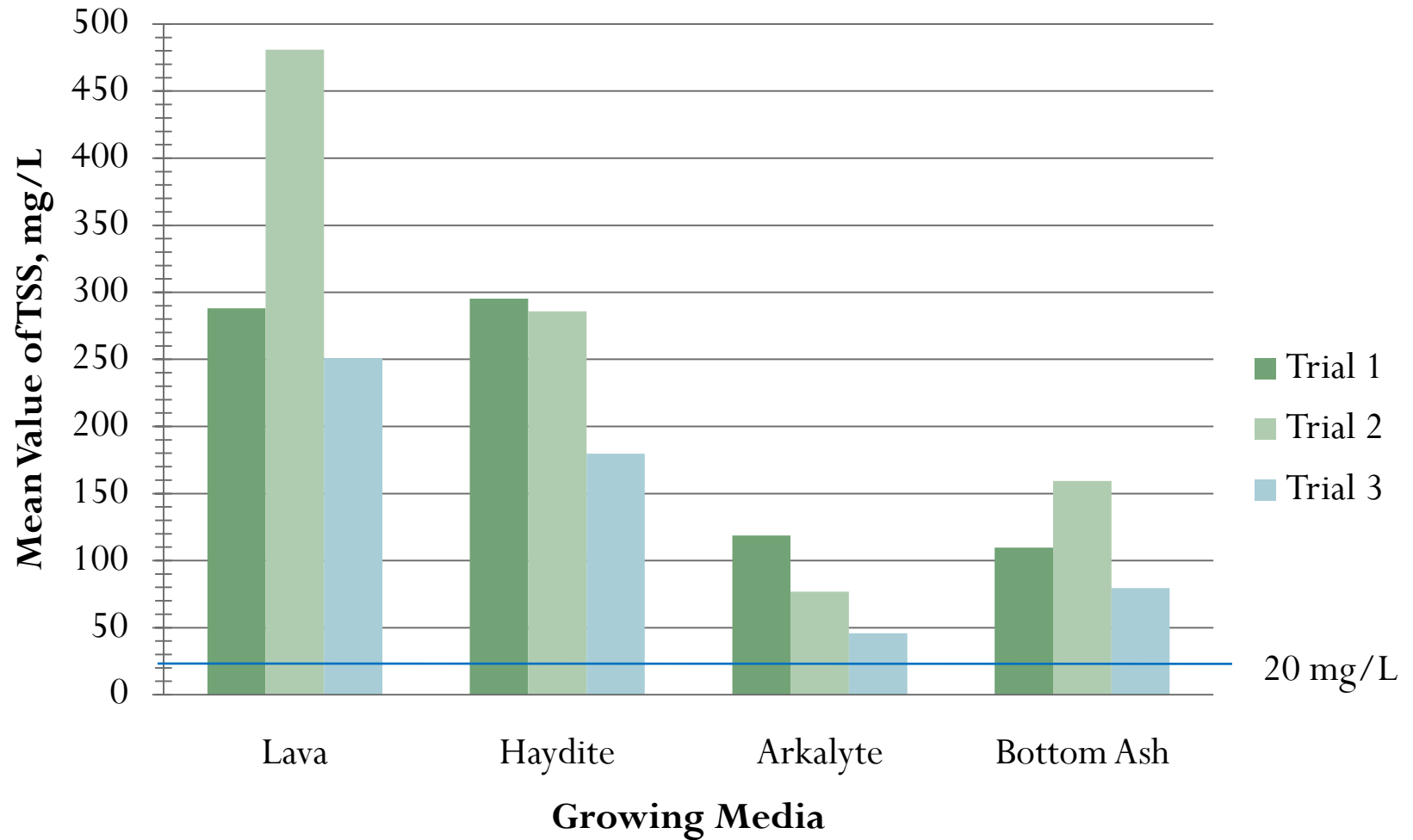
Initial Results – Growing Media TSS



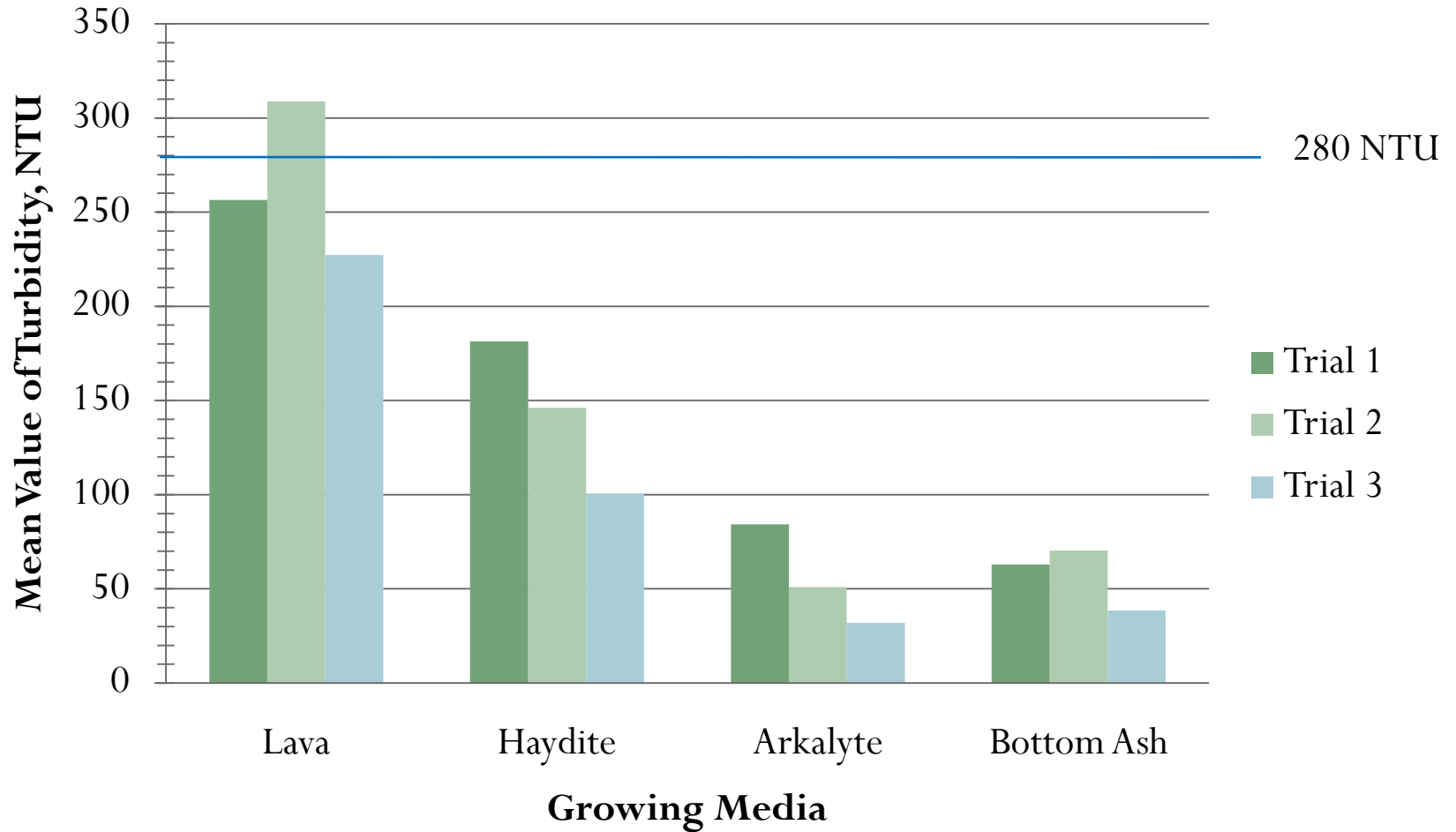
Initial Results – Growing Media Turbidity



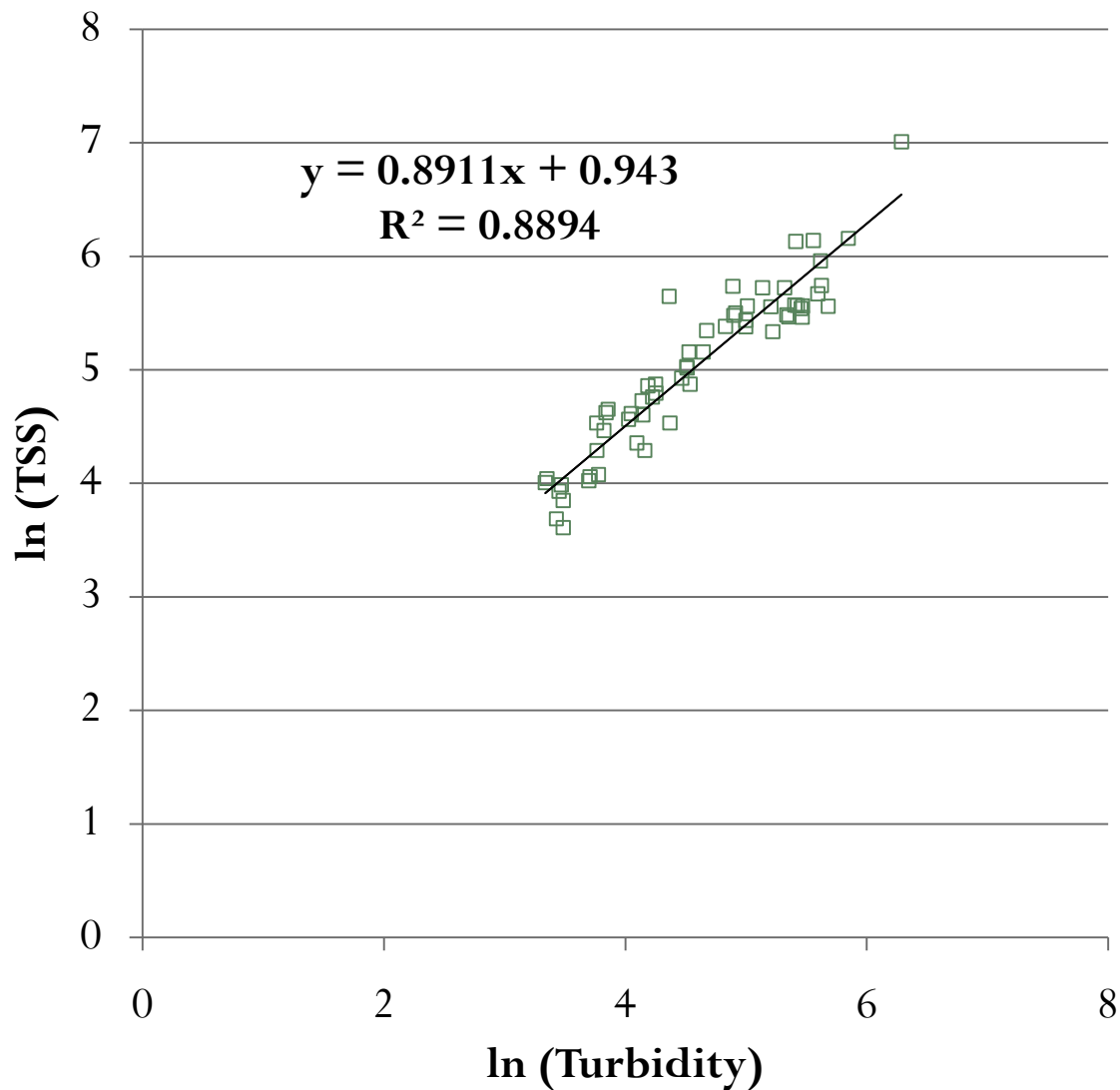
Initial Results – Vegetated Media TSS



Initial Results – Vegetated Media Turbidity



Initial Results – Turbidity vs. TSS



Initial Results – Effects of Color

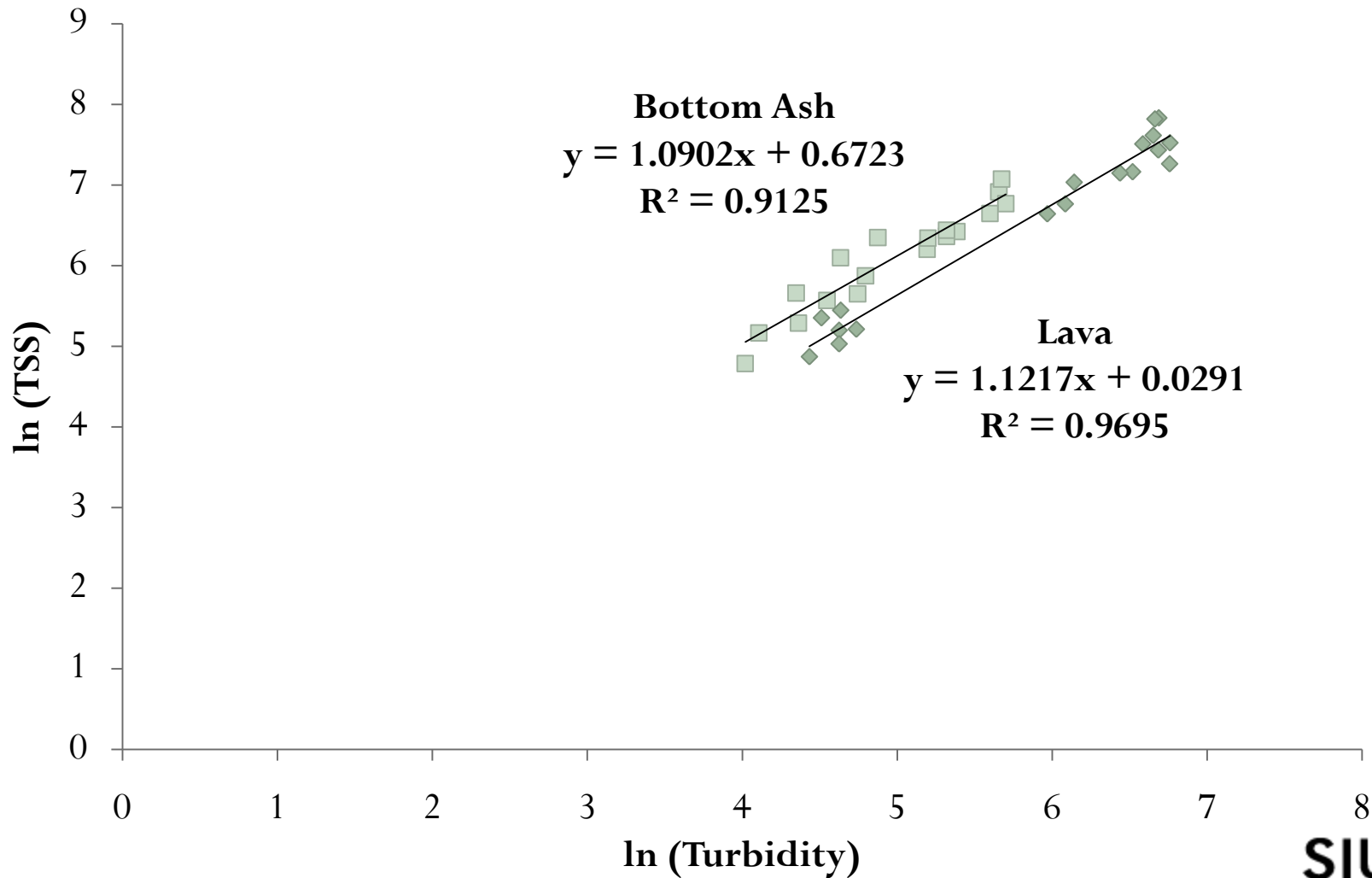
Bottom Ash Non-blended



Lava Non-blended



Initial Results – Effects of Color



Summary

- TSS and turbidity of the growing media decrease over time
- TSS and turbidity vary between media
- The relationship between TSS and turbidity varies with the media and composition of growing medium

Questions?



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