



CR-101 Request

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DNR Adaptive Management Program

Forest Regulation Division

Forest Practices Board Meeting

February 14th, 2024

Riparian Characteristics and Shade Response Study

- Study will provide clarity on the effects of thinning on stream shade
- Field Trial was conducted in August 2022 in Forks, WA
- CR-101 Request was granted in February 2023 for several dozen sites, but none were ultimately selected
- Site selection process led to a short list that we evaluated in Fall 2023
- We are on track to implement the study on two sites in 2024
- Landowner collaboration is essential



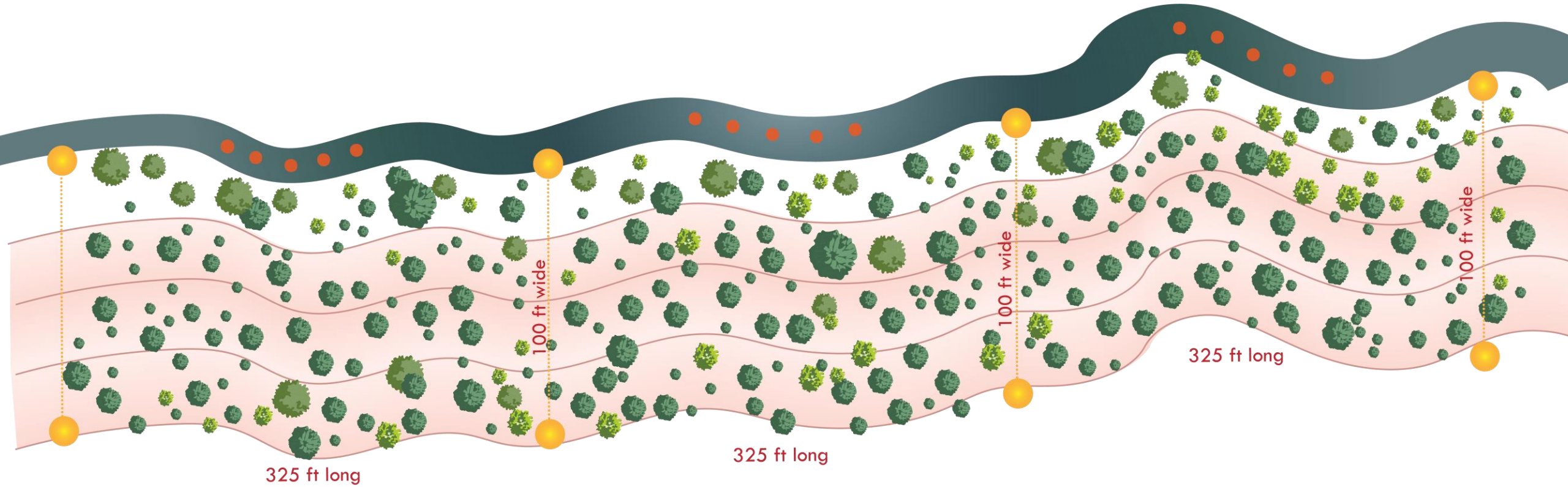


Methods

- Thinning will be from below
- Trees can be collected or left in place
- Hemispherical photography and specialized software is used to quantify shade
- UAV LiDAR is used to quantify stand characteristics



Experimental Design

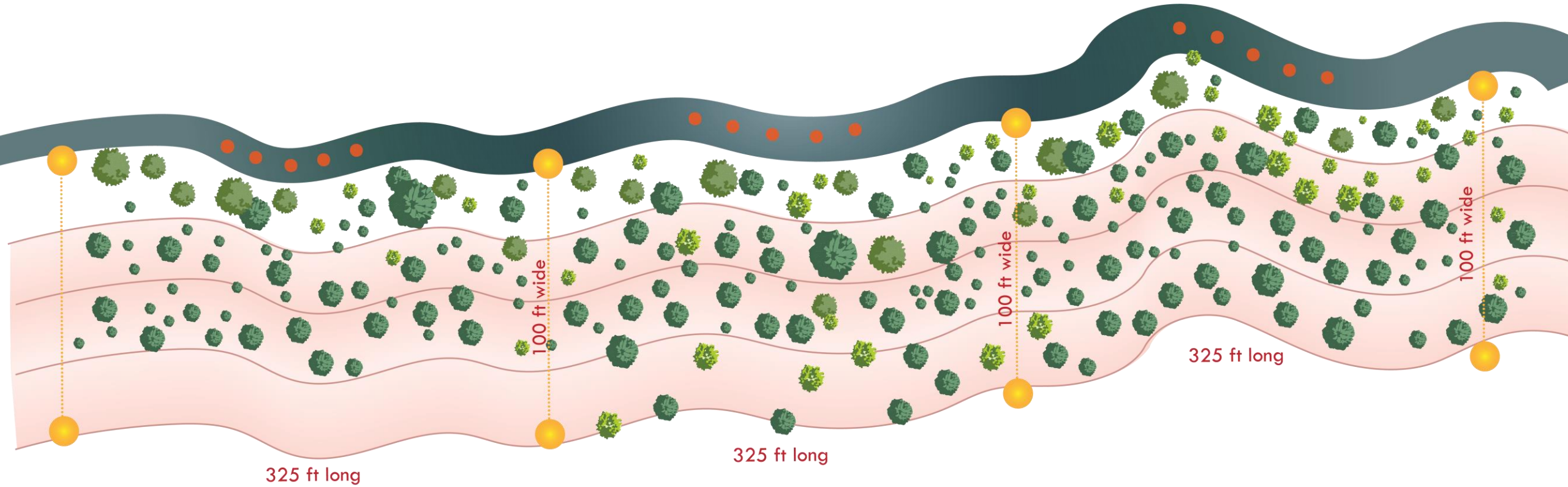


High - Clearcut

Medium – Curtis' Relative Density 20

Low – Curtis' Relative Density 40

Experimental Design

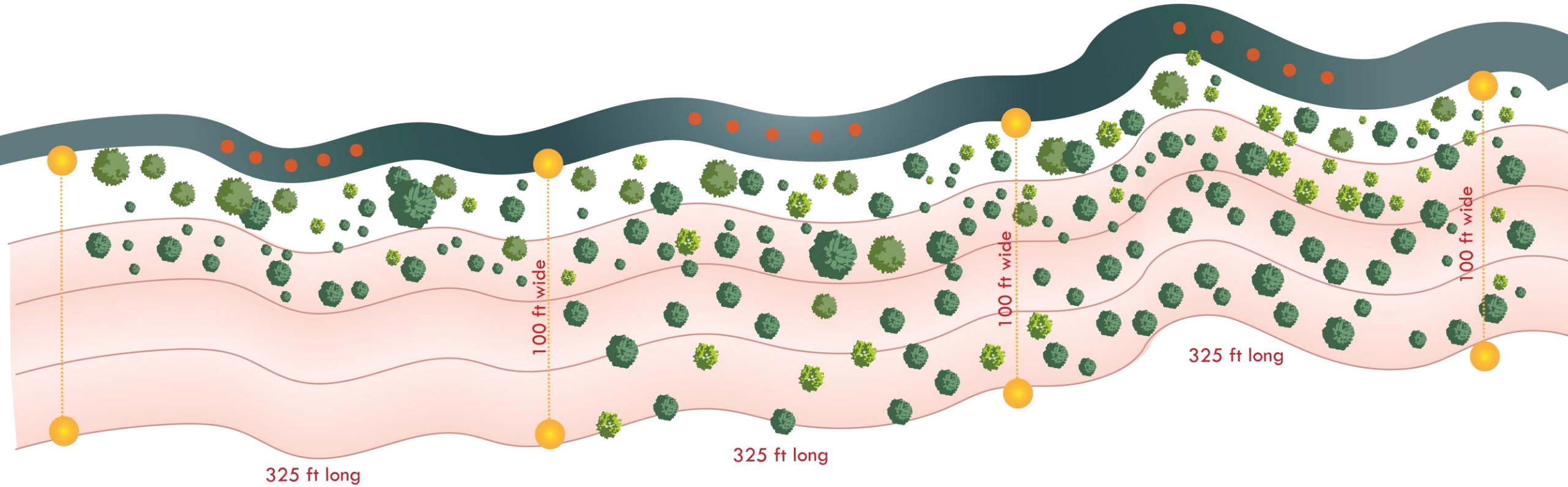


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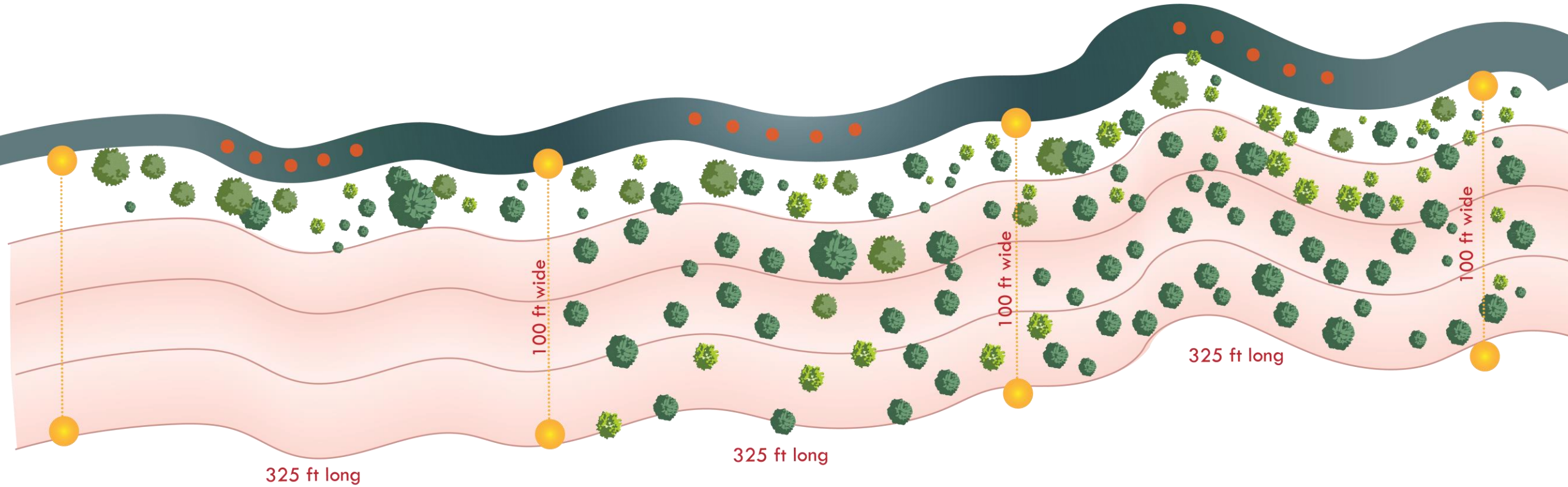


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End Result

- Outside of the treated area, existing westside RMZ rules apply
- Estimated total length of impacted stream is 0.6 km for the two sites addressed today



A photograph of a forest stream. In the foreground, a black camera on a tripod is set up on a rocky bank. The stream flows through a dense forest with many trees and fallen branches. The water is clear and reflects the surrounding greenery. The scene is dimly lit, suggesting a shaded forest environment.

Questions?

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