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Erosion – Mitigation
& Habitat Restoration

A comparative look at BMP's when Mother Nature shows up!

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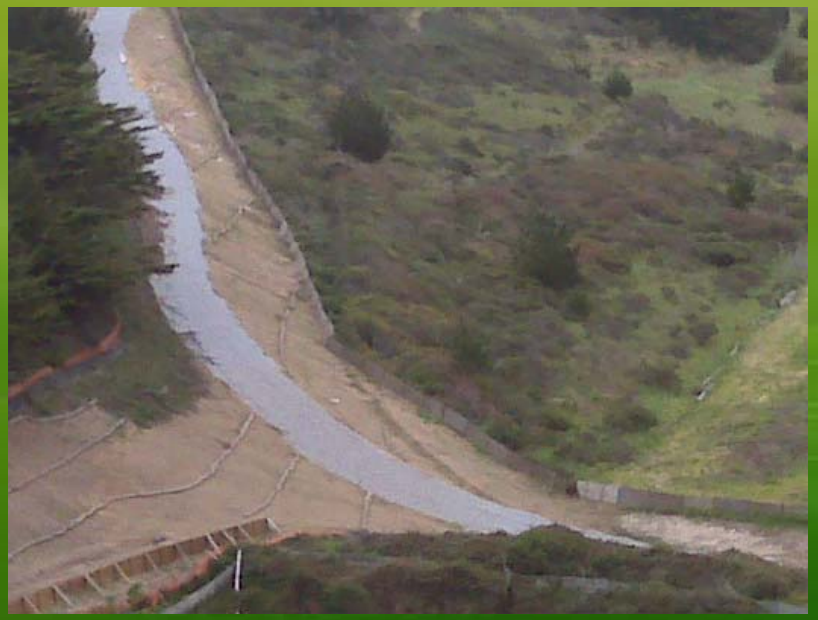
Matting… Matting… And More Matting.

← Jute Mesh Matting

Jute Mesh Matting w/ Wattle Check Dams →



← Reinforced Jute Mesh Matting

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Wattle

Type 2 wattle installation in conjunction w/ Jute Mesh Matting, Hydroseeding, Natural Vegetation, and Selective Planting used to stabilize slopes.

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Wattle

Type 1 Wattle Installation

←Trenched & Staked
←Good for filtration & spreading overland water flow
←Shortening slope length

Type 2 Wattle Installation

- Staked & lashed with rope →
- Good for slowing water velocity →
- Excellent for steep slope applications →

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Check Dams, Fences & Diversions

←24” ADS used to protect from run-on by conveying high water flow from entry point to exit point.

Sandbags & filter fabric used as sediment trap at exit point of 24” ADS pipe →

←Infiltration ditches used after removal of 24” ADS pipe

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Check Dams, Fences & Diversions

←Retention Fence
←Silt Fence
←ESA / Frog Fence

Coir Logs & Wattle Check Dams→

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After The Storm

Hillside blowout on access road

Wattle blowout

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After The Storm

Hillside blowout on horse trail

Rilling at swale

Infiltration ditch overwhelmed

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Conclusion

- Site BMP's held pretty well under extreme conditions
- Reinforced silt fence held up to 50mph winds significantly better than standard silt fence
- Matting, wattle, velocity check dams in conjunction with hydroseeding would have been more effective and less costly than infiltration ditches
- Natural vegetations still the best BMP

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