

## Van Dorn Plan Review

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Lower Platte South Natural Resources District, Lincoln, Nebraska

Intuition & Logic was hired by the Lower Platte South Natural Resources District to review the preliminary design plans for the Tributary 45 Stabilization at Van Dorn. The preliminary design consists of stabilizing the channel with rock armor along the channel bed and banks.

The project reach and channel stabilization recommendations were originally presented in the Stevens Creek Watershed Master Plan (CDM/Intuition & Logic, 2005). As outlined in the Master Plan, interventions along the Van Dorn reach are needed to halt incision and provide a stable bed slope for the incising reach.



Based on our review of the preliminary design, we confirmed that the design approach would stop incision and, with some minor revisions, provide a stable bed slope for the project reach. Recommendations included refining the design of the rock-armored reaches to include Newbury-style grade controls, using well-graded rock instead of filter fabric, and planting livestakes through the rock to provide additional soil reinforcement, habitat value and improved aesthetics.