



## Mariposa Wash Near Nogales, Arizona

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After attempts to arrest head cuts in the wash had failed and a natural gas pipeline crossing the wash was at risk, the pipeline company contacted WEST Consultants to study methods of protecting the pipeline. WEST offered two solutions to protect the pipeline - reburial at greater depth or construction of a grade control structure or structures.

Local and long-term scour in the wash were computed using hydraulic and sediment transport numerical models as well as analytical methods. Reburial depths were based on these analyses. Single and multiple-drop structures which would control the head cuts and long-term scour were also designed. Based on an economic analysis, the reburial solution was chosen by the pipeline company.



**Project Owner:**

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**Completion Date:**

*2/1994*