

**TABLE 3
COMPARISON OF ALTERNATIVES**

**PEYTON SLOUGH
MARTINEZ, CALIFORNIA**

Description of Alternative	Human Health and Environment	Compliance with RAOs	Short and Long Term Effectiveness	Treatment Reliability	Implementability	Cost	Regulatory and Community Acceptance	Total Ranking
Alternative 6a	Is protective of human health and the environment.	Compliance with RAOs	May have long term effectiveness issues if cap integrity is compromised.	Dredging and capping are proven technologies.	May be difficult due to low water conditions, limited access, and equipment restrictions.	High cost.	Dredging and capping would be relatively easy to permit; however, wetlands drainage and long-term effectiveness and O & M may prove to be of concern to the BCDC, U.S. Fish and Wildlife Service, Army Corps and the Mosquito Abatement District.	
Excavation to a Depth of 3.5 Feet with Silt Screen and/or Cofferdam, Landfill Disposal, Capping, and Institutional Controls	3	3	3	4	2	2	2	19
Alternative 6b	Is protective of human health and the environment.	Compliance with RAOs	May have long term effectiveness issues if cap integrity is compromised.	Dredging and capping are proven technologies.	Difficult to treat large volume of decant water. Limited capacity of the onsite treatment system. May be difficult to implement due to two separate construction/remediation activities for each portion of the slough. Timing would be critical given constraints due to presence of endangered species.	Extremely high cost.	Dredging and capping would be relatively easy to permit; however, wetlands drainage and long-term effectiveness and O & M may prove to be of concern to the BCDC, U.S. Fish and Wildlife Service, Army Corps and the Mosquito Abatement District. However, more COCs are removed with this alternative compared to the 3.5 foot excavation alternative above.	
Excavation to a Depth of 6.5 Feet with Silt Screen and/or Cofferdam, Landfill Disposal, Capping, and Institutional Controls	3	3	3	4	1	1	3	18
Alternative 7a	Is protective of human health and the environment.	Compliance with RAOs	May have long term effectiveness issues if partial cap integrity in north Slough is compromised during its operation.	Dredging and capping are proven technologies.	Provides for the complexities caused by dredging and capping activities, but does not remove potential for recontamination of Slough.	Moderate to high cost.	Due to the innovative nature of this project, it may take longer to obtain regulatory approval. This alternative neither removes a greater volume of COCs from the site nor minimizes long-term recontamination issues.	
Partial Re-Alignment of the Peyton Slough (South of the Levee), Dredging and Capping the North Slough, Capping and Backfilling of the South Slough, Restoration of Marsh, and Institutional Controls	4	3	3	4	1	3	2	20
Alternative 7b	Is protective of human health and the environment.	Compliance with RAOs	Secure in long term effectiveness. Significantly reduces the potential for recontamination.	Dredging and capping are proven technologies.	Access may be difficult in some areas. Plan takes advantage of excavation in uncontaminated areas and allows for minimal to no disturbance of COCs.	Relatively moderate cost.	Due to the innovative nature of this project, it may take longer to obtain regulatory approval. This alternative provides the greatest flexibility with regard to future O&M dredging by the Mosquito Abatement District and is preferred by the trustees of the Shell Marsh Restoration Advisory Committee.	
Full Re-Alignment of the Peyton Slough, Capping and Backfilling of the Existing Slough Alignment, Restoration of Marsh, and Institutional Controls	5	5	5	4	3	4	4	30