

Knightsen Community Services District Meeting

December 7, 2017

Knightsen Biofilter Project = Knightsen Conveyance Project and Habitat Preservation and Restoration Project

1. Background
 - 1997 flooding and the 1998 Mattern Report
 - Veale/Byron Tract Work Group and State Grant
 - 2001 Knightsen Town meeting
 - 2002 Feasibility Study
 - 2005 Community Services District formation
2. Original Knightsen Biofilter Project Objectives
 - Improve stormwater quality
 - Improve drainage conveyance
3. Original Knightsen Biofilter Project Concept
 - Existing drainage patterns
 - Proposed stormwater treatment facilities
 - Proposed drainage conveyance improvements
4. Intervening and Related Activities
 - Integrated Regional Water Management Plan
 - BDCP and Delta shoreline
 - Habitat Conservation Plan
 - Historical ecology
5. Restoration Project
 - 645 acres purchased
 - Restoration project underway (planning phase)
6. Modified Project Objectives (Both Projects)
 - Improve stormwater quality
 - Improve drainage conveyance
 - Restore wetlands, alkali meadows, uplands
 - Preserve habitat
 - Provide public recreation and access
7. Knightsen Conveyance Project Design Components
 - Floodwater storage
 - Floodwater/drainage conveyance
 - Inventory existing drainage system
 - Develop hydrology (drainage flow rates) of existing and future land-use scenarios
 - Determine existing drainage system capacities
 - Develop proposed drainage system improvements
 - Determine design storm flow
 - Driveway culverts
 - Stormwater quality treatment