

48		Comal Springs Riffle Beetle: life stages		Growth rates of the life stages.															
49		Comal Springs Riffle Beetle: life stages		How many generations occur each year and are they synchronous?															
50		Comal Springs Riffle Beetle: life stages		How fast the life cycle proceeds or how the life cycle and other life history attributes like fecundity might be affected by changing flow or sediment conditions?															
51		Comal Springs Riffle Beetle: Cotton Lure sampling		Identify how representative the currently sampling method (i.e. cotton lures) is to quantitative densities of both adult and immature stages of the CSRB.															
52		Comal Springs Riffle Beetle: life stages		Identify life history information important to better understanding how the populations, or portions of them, respond to changing habitat conditions related to flow or sedimentation.															
53		Comal Springs Riffle Beetle: indicator species		Better assessment of how well the CSRB acts as an indicator species for the other listed species will be critical for more comprehensive management of all threatened or endangered species that are not currently being monitored.															
54		Phosphorus Sources, Cycling, and Availability		In addition to the physical impacts of low flow, there could be very important indirect effects of low flow on the overall productivity and food web dynamics of the spring/river ecosystems due to nutrients.															
55	Applied Research	Development of a general conceptual model for the Comal and San Marcos ecosystem.	130:1	Project partners should be tasked with the development of a general conceptual model for the Comal and San Marcos System.	Science	No													
56	Applied Research	Increase transparency in prioritizing and funding research projects.	130:6	The Applied Research Program would benefit from a more transparent process for prioritizing and funding projects that includes stakeholder involvement, for example through the science committee and peer review.	Policy	No													
57	Applied Research	Increase competition and collaboration with outside scientific experts.	130:9	The Applied Research Program would benefit from a greater competition and collaboration with outside scientific experts through open and widely disseminated solicitation for research.	Policy	No													
58	Applied Research	Offer longer-term projects.	130:13	The program should offer some longer-term (two- to five-year) projects in order to maximize interest and collaboration from the region's leading researchers.	Policy	No													
59	Applied Research	Increase transparency of research results.	130:17	Results from the Applied Research Program, Particularly from outside researchers, should be provided in a form that ensures transparency and accessibility to other researchers and to the EAA.	Science / Policy	No													
60	Overarching Issues	Increased project integration	132 -133	Fill this in with the 3 recommendations	Science	No													
61	Overarching Issues	Develop a comprehensive information management plan.	134:15	The Committee strongly recommends that develop a comprehensive information management plan as soon as possible.		No													
62	Overarching Issues	Performance monitoring of Minimization/mitigation measures	135: 5	The committee recommends that the M&M be monitored for their performance.	Science / Policy	No													
63	Overarching Issues	Additional data analysis.	135:15	The committee recommends that the EAA make more formal and rigorous statistical analysis of laboratory and field data.	Science / Policy	No													
64	Overarching Issues	Future scenario planning: The Committee recommends that the entities implementing the HCP begin to think now about possible worst case scenarios and their potential implication for both modeling and HCP implementation (provided 5 scenarios; pgs. 137-139).	136:21	Fill this in with the 5 or 6 specific recommendations	Policy	No													

DRAFT

Column Definitions

Required for Compliance:	Is implementation of this recommendation required to maintain compliance with the ITP or HCP
Fatal Flaw of Program	1. Does a recommendation correct a wrong direction, decision or approach that prevents the Permittees from achieving the Biological Objectives or Biological Goals in the HCP. 2. Does a recommendation correct a wrong direction, decision or approach that would cause the Permittees to exceed the Take levels identified in the ITP.
Immediate Implementation	Within the next year
Delayed Implementation	2-5 year implementation schedule
Operationally Feasible	Can the technical and physical elements of a recommendation be implemented based on the current level of knowledge, understanding and resources.
Politically Feasible	Has there been an expression historically by the Permittees as to the political nature or controversial nature of the recommendation
Fiscally Feasible	Are there funds available for implementation of the recommendation.
Implementation Strategy	How will the recommendation be implemented