

Appendix G

Amargosa River Area of Critical Environmental Concern Cost and Implementation Schedule

Implementation actions identified in the Amargosa River Area of Critical Environmental Concern (ACEC) Implementation Plan are prioritized as high, medium, and low. Cost estimates for many implementation actions, over the twenty-year life expectancy of this plan, are identified in Table G-1. Priorities and implementation schedules are based on current budget expectations and trends. Decreases or increases in the budget available for Plan implementation and monitoring will, obviously, decelerate or accelerate implementation schedules. Many implementation and monitoring actions will, no doubt, need to be funded through non-traditional methods such as grants.

Table G-1 and the priorities within the Plan are meant only as guidelines, and should only be regarded as strict, if full funding is received. In the event that significantly deficient budgets are encountered, implementation and monitoring activities could be reprioritized and rescheduled. A more appropriate use of Table G-1 is as a guide for funding requests. If sufficient funding to implement and monitor the Plan is not received, lower priority items may be temporally dropped. This is not to say that they will not occur but rather that schedules will not be met. All costing in Table G-1 is based upon 2006 dollars and should be adjusted for inflation in the out-years.

Action	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Total	
Monitor any newly established populations of Ash Meadows gupplant (<i>Grindelia fraxino-pratensis</i>) and Amargosa niterwort (<i>Nitrophila mohavensis</i>) to determine the success of these new populations.	Cost will be about \$6k per year after establishment of any new populations.																					
Monitor recreational activities to identify adverse effects to habitat, sensitive resources, and facilities using appropriate on-the-ground and remote methodologies.	\$4k				\$6k				\$8k				\$10k				\$12k				\$40k	
Conduct regular focused research and surveys for listed, sensitive, and other riparian birds to determine variety, abundance, nesting locations, and information to maintain and enhance nesting populations. Determine changes to nesting status.	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$40k	\$760k
Monitor surface water quality at pre-selected locations to gauge condition and trend.				\$30k				\$30k				\$30k				\$30k				\$30k	\$150k	
Document cultural resources within the ACEC through an archaeological inventory of culturally significant portions of the ACEC. This inventory will fulfill Section 110 of the National Historic Preservation Act (NHPA) and use any of the methods or techniques suitable for Section 110 surveys. Monitor locations exhibiting intense use and areas with fragile cultural resources.	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$25k	\$500k
Survey for populations of Amargosa River pupfish and the Amargosa Canyon speckled dace.	\$40k	\$40k			\$40k			\$40k			\$40k			\$40k			\$40k			\$40k	\$320k	
Conduct an Order III soil survey for the ACEC that will include a series or association level vegetation map for the ACEC.				\$250k	\$250k	\$50k																\$550k
Inventory invertebrate populations and assemblages in the ACEC, and monitor sensitive fish and invertebrate microhabitats to identify trends and threats.	\$40k	\$40k					\$40k					\$40k					\$40k					\$200k
Conduct an in-stream flow study to document flows required to sustain resources and values within the ACEC. Model historic flows. Attempt to identify causes for non-seasonal changes.				\$75k	\$75k	\$75k																\$225k
Monitor species diversity, richness, and abundance for mammalian, avian, reptilian, amphibian, and vascular plant taxa within the ACEC. Identify thresholds for substantial change that would trigger reevaluation of strategies.	\$17k	\$12k					\$12k					\$17k					\$12k					\$70k
Build an OHV exclusion barrier at the trailhead of the rerouted northern end of the Tecopa Trail, and restore the previous trailhead, as needed.	\$10k			\$1k			\$2k			\$2k			\$3k			\$3k			\$4k			\$25k
Implement Trail Plan Alternative A (Appendix B).	\$10k	\$24k	\$18k	\$18k	\$40k	\$12k	\$12k	\$14k	\$14k	\$14k	\$16k	\$16k	\$16k	\$18k	\$18k	\$18k	\$20k	\$20k	\$20k	\$22k		\$360k
Implement Interpretive Plan Alternative A (Appendix C).	\$k	\$53k	\$61k	\$42k	\$62k	\$73k	\$45k	\$300k	\$400k	\$4k	\$4k	\$4k	\$6k	\$6k	\$6k	\$8k	\$8k	\$8k	\$10k	\$10k		\$1,110k
Protect cultural resources that display adverse effects by signing or fencing		\$10k		\$10k			\$1k					\$10k					\$2k					\$33k

<i>Action</i>	<i>FY 07</i>	<i>FY 08</i>	<i>FY 09</i>	<i>FY 10</i>	<i>FY 11</i>	<i>FY 12</i>	<i>FY 13</i>	<i>FY 14</i>	<i>FY 15</i>	<i>FY 16</i>	<i>FY 17</i>	<i>FY 18</i>	<i>FY 20</i>	<i>FY 21</i>	<i>FY 22</i>	<i>FY 23</i>	<i>FY 24</i>	<i>FY 25</i>	<i>FY 26</i>	<i>FY 27</i>	<i>Total</i>
Actively engage in the existing interagency forums concerned with Devil's Hole and the Death Valley Regional Flow System. Notify appropriate state water control agencies, land managers, and the DOI Solicitor's Office of the importance of the Amargosa drainage in the maintenance of sensitive biological resources present within the ACEC.	\$6k	\$120k																			
Acquire State and private lands within the Amargosa River ACEC through exchange or purchase from interested, willing landowners to consolidate public lands. Priority areas would be lands that were identified in the 1983 ACEC Plans and lands in the expanded ACEC that contain significant resource values or designated critical habitat.			\$5k	\$5k	\$11k		\$11k		\$11k				\$13k								\$56k
Supplemental rule making	\$10k																				\$10k
LE Support	\$23k	\$460k																			
<i>Total</i>	<i>\$592k</i>	<i>\$641k</i>	<i>\$544k</i>	<i>\$817k</i>	<i>\$909k</i>	<i>\$562k</i>	<i>\$511k</i>	<i>\$757k</i>	<i>\$796k</i>	<i>\$368k</i>	<i>\$476k</i>	<i>\$422k</i>	<i>\$415k</i>	<i>\$405k</i>	<i>\$332k</i>	<i>\$366k</i>	<i>\$489k</i>	<i>\$347k</i>	<i>\$353k</i>	<i>\$425k</i>	<i>\$10,527k</i>