

Table 3-16. Breakdown of KR4 P&T System Construction and Operation Costs

Description	Actual Costs (Dollars × 1,000)													
	2000	2001 <sup>a</sup>	2002 <sup>b</sup>	2003	2004	2005	2006	2007	2008	2009 <sup>f,g</sup>	2010 <sup>h</sup>	2011	2012	2013
Design	—	96.5	55.2	70.8	163.9	190.8	97.8	187 <sup>c</sup>	63.1	157.7	25.4	52.2	(1.7)	0.9
Treatment system capital construction	109.1	(0.1)	860.1	379.9	94.2	273.8	1,505.8	2,114.1 <sup>d</sup>	8,368.5	6,651.0 <sup>d</sup>	3,556.2	1,860.8	350.8 <sup>i</sup>	30.7
Project support	143.0	188.2	257.8	171.0	211.8	851.9	530.5	489.8	963.0	174.1	77.6	94.3	58.0	109.8
Operations and maintenance	538.0	578.6	771.9	789.7	1,118.2	878.6	1,350.8	804.3	916.0	1,619.3	1,418.1	911.8	1,032.9	1,096.0
Performance monitoring	111.2	122.6	124.6	119.7	83.3	446.3	548.8	395.7	634.9	569.1	928.1	897.9	324.4	156.9
Waste management	481.8	367.5	343.3	684.7	475.8	198.3	230.2	458.9 <sup>e</sup>	438.2	599.8	266.7	110.6	17.3	0.0
Field studies	—	—	—	—	—	—	—	—	—	25.0	653.1	3.0	0.2	(0.0)
<b>Totals</b>	<b>\$1,383</b>	<b>\$1,353</b>	<b>\$2,413</b>	<b>\$2,216</b>	<b>\$2,147</b>	<b>\$2,840</b>	<b>\$4,264</b>	<b>\$4,450</b>	<b>\$11,384</b>	<b>\$9,796</b>	<b>\$6,925</b>	<b>\$3,931</b>	<b>\$1,782</b>	<b>\$1,394</b>

a. 2001 costs were corrected for project support and waste management. Initial expense calculations for 2001 were not properly categorized.

b. 2002 accrual costs were corrected for appropriate split between Bechtel Hanford, Inc. and Fluor Hanford, Inc.

c. Additional design costs were associated with pump-and-treat expansion.

d. Additional treatment system capital construction costs were associated with new wells and buildings to support pump-and-treat system expansion.

e. Additional costs were associated with drilling wastes and resin cleared for shipment and handling.

f. Annual report has been transitioned from a fiscal year reporting period to a calendar year reporting period. The cost breakdown for 2009 is for the 15-month period from October 2008 through December 2009.

g. KX system costs prior to startup are included in with 2009.

h. 2010 accrual costs were corrected. The KR4 and KX expense calculations were incorrectly grouped together.

i. Includes costs for facility modifications to change ion exchange resin from Dowex 21K to ResinTech SIR-700.

— = not available