Asarco El Paso Smelter - Cost Estimate Waste Management [Present Value Calculation] Sitewide Evaluation - June 2008 El Paso, Texas				
	Quantities	**units**	**Unit Price**	**Total**
Demolition of Structures [One time]				
Demolition of Structures (steel)	264,141	sq. ft.	$11	$2,905,551
Demolition of Structures (Brick and concrete)	191,157	sq. ft.	$17.50	$3,345,248
Demolition of Structures (Wood railroad trussels)	40,025	sq. ft.	$40	$1,601,000
Demolition of Structures (I-10 Bridge and Slag bridge)	17,625	sq. ft.	$16	$282,000
Demo	1	Lump Sum	$750,000	$750,000
Subtotal of demolition of structure				**$8,883,799**
Groundwater [construction and 50 years operation]				
Construction [One time]				
Slurry Wall (Bentonite soil mix, 3 feet wide) Design and installation	3,000	feet	$590	$1,770,000
Additional Extraction Wells will use existing wells whenever possible	50	well	$4,500	$225,000
Injection Well (800 foot injection well for discharge of treated groundwater)	1	well	$100,000	$100,000
Design and Construction of Groundwater Treatment system	1	system	$5,000,000	$5,000,000
Subtotal of Groundwater construction				**$7,095,000**
Continuous operation [Present value of 50 years annuity factor of 25.72976]				
Operation and Maintenance (electrical and general maintenance)	*25.72976*	Annual Cost	$350,000	$9,005,416
Guard to protect equipment and GW system (1 guard $ 25 an hour)	*25.72976*	Annual Cost	$213,600	$5,495,877
Monitor Well Plugging and Abandonment [0ne time charge 50 years later, using Presnet Value factor of 0.22811]	*0.22811*	Lump Sum	$64,800	$14,782
Semi-annual groundwater reports [2 reports per year @ $5000 per report]	25.72976	Annual Cost	$10,000	$257,298
Subtotal of Groundwater operation				**$14,773,372**
Subtotal of Groundwater construction and operation				**$21,868,372**
Asphalt Paving to manage exposure [One time]				
Acreage left to be paved from May 20, 2005 Corrective Action Directive letter	16	acres	$130,000	$2,080,000
Northern Section of Smelter	8	acres	$130,000	$975,000
Former Building and Process footprint	52	acres	$130,000	$6,760,000
Subtotal of apshalt paving				**$9,815,000**
Fen	2800	feet	$25	**$68,628**
Engineering Design and Construction of Disposal unit Cell 4 [One time]				
Engineer and Construction of Cell 4 for disposal of:	1	Cell	$4,000,000	$4,000,000
Minus 50 Slag waste pile (255,111 cubic yds)				
Abrasive Blasting Area (1,111 cubic yds.)				
Soil underneath Process area (20,000 cubic yds Estimated)				
Category I soils from May 5, 2005 letter (25,000 cubic yds Estimated)				
Excavation and Disposal of material in Cell 4 [One time]	303,000	cubic yds.	$6	$1,818,000
Verification of Waste Excavation of materials to Cell 4	100	soil samples	$250	$25,000
Completion Report	1	report	$5,000	$5,000
Subtotal of design and construction of disposal unit cell 4				**$5,848,000**
Long term monitoring of engineering control and groundwater [Present Valueof 400 years annuity factor of 33.333]				
Annual site inspection report is covered under the groundwater report for the first 50 years	0	reports	$0	$0
Monitoring and Sampling (Management of Waste) 30 wells biannual ($150 per sample)	*33.333*	Annual Cost	$9,000	$299,997
TCEQ Oversight	*33.333*	Annual Cost	$11,024	$367,463
TCEQ travel (once a year)	*33.333*	Annual Cost	$1,000	$33,333
Anna	*33.332*	Annual Cost	$5,000	$166,660
General repairs per year (Fence and Asphalt Cap)				
Assume 1% of fence is required repair [1300 lf x $25 LF]	*33.333*	Annual Cost	$32,500	$1,083,323
Assume 0.5% of 98 Acres asphalt cover is required repair [$2.00/sf x 20,000 SF]	*33.333*	Annual Cost	$40,000	$1,333,320
Subtotal of long term monitoring				**$3,284,095**
Con	0	Lump Sum	$0	**$0**
SUB				**$49,767,893**
Oth				**$2,237,293**
TOTAL				**$52,005,186.00**