

**APPENDIX F**  
**MISCELLANEOUS DEMOLITION, CLEANUP, AND**  
**DISPOSAL COSTS**

**GENERAL DEMOLITION CREW AND EQUIPMENT FLEET  
UNIT COSTS**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE GENERAL DEMOLITION CREW MANPOWER</b>		
<b>CATEGORY</b>	<b>QUANTITY</b>	<b>\$/HOUR</b>
Foreman	1	75.00
General Laborer	4	74.64
Truck Driver	3	71.82
Backhoe/Excavator Operator	1	19.34
Mechanic	1	31.74
Loader Operator	1	32.77
Crane Operator	1	31.74
Ironworker	4	151.20
Welder	4	151.20
<b>TOTAL FOR DEMOLITION CREW MANPOWER</b>	<b>20</b>	<b>\$ 639.45</b>

<b>Augusta Resource Rosemont - LIFE OF MINE GENERAL DEMOLITION EQUIPMENT</b>		
<b>CATEGORY</b>	<b>QUANTITY</b>	<b>\$/HOUR</b>
4X4 3/4 Ton Pickup Truck	2	23.85
1 Ton Mechanics Truck	1	56.58
Crew Passenger Bus	1	14.97
Tool Cargo Trailer	2	44.03
771D Haul Truck	3	408.55
988F Loader (with forks)	1	234.00
235D Excavator (with shear and rammex)	1	252.57
150 Ton Crane	1	72.73
28 Ton Rough Terrain Crane	1	59.80
14 Ton Boom Truck	1	68.45
60 Foot Reach Man Lift	1	23.73
1 Ton Welding/Cutting Torch Rigs	4	323.56
20 kW Mobile Generator	1	20.46
<b>TOTAL FOR CLEANUP EQUIPMENT FLEET</b>	<b>20</b>	<b>\$ 1,603.27</b>

**DEMOLITION OF BUILDINGS, STRUCTURES, AND EQUIPMENT**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE DEMOLITION ESTIMATES<sup>1</sup></b>			
<b>CATEGORY</b>	<b>HOURS</b>	<b>CREW COST (\$)</b>	<b>EQUIPMENT COST (\$)</b>
<b>PLANT SITE</b>			
Brandenburg Bid for all Plant site thickeners, pipes, etc.		125,220.00	
Brandenburg Bid for all buildings, concrete, etc.		4,605,113.00	
<b>SUBTOTAL EDER CRUSHER AND CONVEYOR AREA</b>	<b>0</b>	<b>\$ 4,730,333.00</b>	<b>\$ -</b>
<b>WATER SUPPLY AND FIRE SYSTEM</b>			
Demolish buildings - 20'X20'X10' pre-engineered metal fire water pump house	40	25,578.00	64,130.65
Demolish process piping and related - 3000 feet of various diameter carbon steel pipe and connectors; 1650 feet of 2" HDPE pipe and connectors; 3500 feet of 3" HDPE pipe and connectors; 7800 feet of 10" HDPE pipe and connectors; 9200 feet of 12" HDPE pipe and connectors; 5200 feet of 8" HDPE pipe and connectors; approximately 30 control valves; 2 fire hydrants	80	51,156.00	128,261.30
Demolish mechanical equipment - 15 pumps and motors; 15 pressure tanks; diesel fire protection pump; fire water jockey pump; assorted controls and wiring; pipeline crossing	15	9,591.75	24,048.99
Demolish concrete foundations - approximately 450 cubic yards of foundations	20	12,789.00	32,065.33
<b>SUBTOTAL WATER SUPPLY AND FIRE SYSTEM</b>	<b>155</b>	<b>\$ 99,114.75</b>	<b>\$ 248,506.27</b>
<b>TOTAL COST FOR DEMOLITION OF BUILDINGS, STRUCTURES AND EQUIPMENT</b>	<b>155</b>	<b>\$ 4,829,447.75</b>	<b>\$ 248,506.27</b>

1. Demolition estimate for plant site facilities included in Brandenburg bid.

**GENERAL CLEANUP CREW AND EQUIPMENT FLEET  
UNIT COSTS**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE GENERAL CLEANUP CREW MANPOWER</b>		
<b>CATEGORY</b>	<b>QUANTITY</b>	<b>\$/HOUR</b>
General Laborer	2	37.32
Truck Driver	1	23.94
Backhoe/Excavator Operator	1	19.34
Excavator	1	31.77
Welder	1	37.80
<b>TOTAL FOR DEMOLITION CREW MANPOWER</b>	<b>6</b>	<b>\$ 150.17</b>

<b>Augusta Resource Rosemont COMPANY - LIFE OF MINE GENERAL CLEANUP EQUIPMENT</b>		
<b>CATEGORY</b>	<b>QUANTITY</b>	<b>\$/HOUR</b>
4X4 1/2 Ton Pickup Truck	1	12.37
24 CY Rear Dump Truck	1	61.56
Backhoe (710D or Equivalent)	1	83.27
235D Excavator (with shear and rammex)	1	252.57
1 Ton Welding/Cutting Torch Rigs	1	80.89
<b>TOTAL FOR CLEANUP EQUIPMENT FLEET</b>	<b>5</b>	<b>\$ 490.66</b>

1. A 24 CY dump truck used to transport materials offsite is run at \$75 per hour plus a 14% surcharge and the dump fee. The estimate on cleanup for disposal was assumed to be 3 hours - loading, unloading and dumping plus the 14% surcharge. Dump

## GENERAL CLEANUP OF DEMOLITION AREAS

Augusta Resource Rosemont PROJECT - LIFE OF MINE GENERAL CLEANUP CREW ESTIMATES				
CATEGORY	HOURS	CREW COST (\$)	EQUIPMENT COST (\$)	SUPPLIES (\$)
<b>PWTS POND AREA</b>				
General cleanup following demolition	8	\$ 1,201.36	\$ 3,925.31	
Fold pond embankment liners and haul sludge to leach pad	24	3,604.08	11,775.92	256.50
<b>SUBTOTAL PWTS POND AREA</b>	<b>32</b>	<b>\$ 4,805.44</b>	<b>\$ 15,701.22</b>	<b>\$ 256.50</b>
<b>PLS POND AREA</b>				
General cleanup following demolition	20	\$ 3,003.40	\$ 9,813.26	
Fold pond embankment liners and haul sludge to leach pad	40	6,006.80	19,626.53	256.50
<b>SUBTOTAL PLS POND AREA</b>	<b>60</b>	<b>\$ 9,010.20</b>	<b>\$ 29,439.79</b>	<b>\$ 256.50</b>
<b>RAFFINATE POND AREA</b>				
General cleanup following demolition	8	\$ 1,201.36	\$ 3,925.31	
Fold pond embankment liners and haul sludge to leach pad	20	3,003.40	9,813.26	769.50
<b>SUBTOTAL RAFFINATE POND AREA</b>	<b>28</b>	<b>\$ 4,204.76</b>	<b>\$ 13,738.57</b>	<b>\$ 769.50</b>
<b>STORMWATER POND AREA</b>				
General cleanup following demolition	4	\$ 600.68	\$ 1,962.65	
Fold pond embankment liners and haul sludge to leach pad	12	1,802.04	5,887.96	256.50
<b>SUBTOTAL STORMWATER POND AREA</b>	<b>16</b>	<b>\$ 2,402.72</b>	<b>\$ 7,850.61</b>	<b>\$ 256.50</b>
<b>PLANT SITE</b>				
General cleanup following demolition	6	\$ 901.02	\$ 2,943.98	\$ 1,282.50
<b>SUBTOTAL EDER CRUSHER AND CONVEYOR AREA</b>	<b>6</b>	<b>\$ 901.02</b>	<b>\$ 2,943.98</b>	<b>\$ 1,282.50</b>
<b>ADMINISTRATION AREA</b>				
General cleanup following demolition	6	\$ 901.02	\$ 2,943.98	
<b>SUBTOTAL ADMINISTRATION AREA</b>	<b>6</b>	<b>\$ 901.02</b>	<b>\$ 2,943.98</b>	<b>\$ -</b>
<b>SOLVENT EXTRACTION AREA</b>				
General cleanup following demolition	8	\$ 1,201.36	\$ 3,925.31	\$ 513.00
<b>SUBTOTAL SOLVENT EXTRACTION AREA</b>	<b>8</b>	<b>\$ 1,201.36</b>	<b>\$ 3,925.31</b>	<b>\$ 513.00</b>
<b>ELECTROWINNING AREA</b>				
General cleanup following demolition	8	\$ 1,201.36	\$ 3,925.31	\$ 2,565.00
<b>SUBTOTAL ELECTROWINNING AREA</b>	<b>8</b>	<b>\$ 1,201.36</b>	<b>\$ 3,925.31</b>	<b>\$ 2,565.00</b>
<b>REAGENT AREA</b>				
General cleanup following demolition	8	\$ 1,201.36	\$ 3,925.31	\$ 769.50
<b>SUBTOTAL REAGENT AREA</b>	<b>8</b>	<b>\$ 1,201.36</b>	<b>\$ 3,925.31</b>	<b>\$ 769.50</b>
<b>LABORATORY</b>				
General cleanup following demolition	6	\$ 901.02	\$ 2,943.98	\$ 1,282.50
<b>SUBTOTAL LABORATORY</b>	<b>6</b>	<b>\$ 901.02</b>	<b>\$ 2,943.98</b>	<b>\$ 1,282.50</b>
<b>WATER SUPPLY AND FIRE SYSTEM</b>				
General cleanup following demolition	60	\$ 9,010.20	\$ 29,439.79	
Remove equipment (10 loads additional)	10	1,501.70	4,906.63	2,565.00
<b>SUBTOTAL WATER SUPPLY AND FIRE SYSTEM</b>	<b>70</b>	<b>\$ 10,511.90</b>	<b>\$ 34,346.42</b>	<b>\$ 2,565.00</b>
<b>TOTAL COST FOR CLEANUP OF BUILDINGS, STRUCTURES, AND EQUIPMENTS</b>	<b>128</b>	<b>\$ 37,242.16</b>	<b>\$ 121,684.47</b>	<b>\$ 10,516.50</b>

**TANK DEMOLITION**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE COSTS FOR TANK DEMOLITION</b>							
<b>LOCATION</b>	<b>NAME</b>	<b>SIZE (gal)</b>	<b>CREW HOURS</b>	<b>LOADS</b>	<b>LABOR (\$)</b>	<b>EQUIPMENT (\$)</b>	<b>SUPPLIES (\$)</b>
Water Supply	Lift Station (start) - Tank	10,000	2	2	1,278.90	3,206.53	504.00
Water Supply	Lift Station (start) - Forebay	300,000	40	8	25,578.00	64,130.65	1,890.00
Water Supply	Lift Station (3310) - Tank	10,000	2	2	1,278.90	3,206.53	504.00
Water Supply	Lift Station (3310) - Forebay	300,000	40	8	25,578.00	64,130.65	2,016.00
Water Supply	Lift Station (3885) - Tank	10,000	2	2	1,278.90	3,206.53	504.00
Water Supply	Lift Station (3885) - Forebay	300,000	40	8	25,578.00	64,130.65	2,016.00
Water Supply	Lift Station (4460) - Tank	10,000	2	2	1,278.90	3,206.53	504.00
Water Supply	Lift Station (4460) - Forebay	300,000	40	8	25,578.00	64,130.65	2,016.00
Water Supply	Lift Station (5035) - Tank	10,000	2	2	1,278.90	3,206.53	504.00
Water Supply	Lift Station (5035) - Forebay	300,000	40	8	25,578.00	64,130.65	2,016.00
Brandenburg Bid for All Plant Site Facilities					159,500.00		
<b>TOTAL COST FOR DEMOLITION OF TANKS</b>					<b>210</b>	<b>\$ 293,784.50</b>	<b>\$ 336,685.91</b>
							<b>\$ 12,474.00</b>

**CULVERT, GUARDRAIL, AND POWERLINE REMOVAL**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE CLEANUP OF CULVERTS, GUARDRAIL, AND POWERLINE</b>					
<b>RECLAMATION TASK</b>	<b>CREW HOURS</b>	<b>LOADS</b>	<b>LABOR (\$)</b>	<b>EQUIPMENT (\$)</b>	<b>SUPPLIES (\$)</b>
<b>CULVERT AND PIPELINE REMOVAL (45 LOADS)</b>	240	45	153,468.00	384,783.90	11,340.00
Approximately 17 miles of pipeline removal					
In-Plant culverts					
<b>POWER LINE AND POLE REMOVAL (30 LOADS)</b>	100	30	63,945.00	160,326.63	7,560.00
approximately 5 miles of powerline <sup>1</sup>					
40 power poles					
<b>TOTAL COST FOR DEMOLITION OF CULVERTS AND POWERLINES</b>	<b>340</b>		<b>\$ 217,413.00</b>	<b>\$ 545,110.53</b>	<b>\$ 18,900.00</b>

1. Assumes that much of the powerline will remain in place as part of agreements.

**MOBILIZATION AND DEMOBILIZATION OF EQUIPMENT**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE COSTS FOR MOBILIZATION AND DEMOBILIZATION OF EQUIPMENT</b>			
<b>Type of Equipment</b>	<b>Number of Units</b>	<b>Unit Cost (\$)</b>	<b>Total Cost (\$)</b>
<b>Updated 2005 Costing</b>			
4x4 1/2 ton Pickup Truck	1	NA	-
4x4 3/4 ton Pickup Truck	2	NA	-
1 Ton Mechanics Truck	1	NA	-
Tool Cargo Trailer	2	NA	-
Crew Passenger Bus	1	NA	-
24 CY Rear Dump Truck	1	NA	-
771 D Haul Truck <sup>1</sup>	3	465.00	1,395.00
777C Haul Truck <sup>1</sup>	8	1,880.00	15,040.00
Water Truck	1	255.00	255.00
988F Loader (with forks) <sup>1</sup>	2	1,880.00	3,760.00
992D Loader <sup>1</sup>	2	3,000.00	6,000.00
D10R/10U Dozer <sup>1</sup>	3	2,352.00	7,056.00
75D Challenger with Drill/Broadcast Seeder and Disc Harrower	1	1,320.00	1,320.00
14H Motor Grader	1	300.00	300.00
Padded Drum Compactor (CP-563C) <sup>1</sup>	1	375.00	375.00
Smooth Drum Compactor (CS-583-C) <sup>1</sup>	1	335.00	335.00
631 E Scraper	3	425.00	1,275.00
Backhoe (710D or equivalent)	1	195.00	195.00
235D Excavator (With shear and rammex)	2	350.00	700.00
14 Ton Boom Truck	1	300.00	300.00
150 Ton Crane	1	2,400.00	2,400.00
28 Ton Rough Terrain Crane	1	1,500.00	1,500.00
60 Foot Reach Man Lift	1	800.00	800.00
1 Ton Truck-mounted Welder/Cutting Torch	5	NA	-
20kW Mobile Generator	1	192.00	192.00
<b>TOTAL</b>	<b>47</b>		<b>\$ 43,198.00</b>

1. One way mob fees are based on Road Machinery quote

NA refers to small trucks, passenger trailers, etc. that can be driven to the site rather than delivered.

**MISCELLANEOUS RECLAMATION COSTS**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE ADDITIONAL MISCELLANEOUS RECLAMATION COSTS</b>	
<b>MONITORING AND PRODUCTION WELL ABANDONMENT:</b>	
ASSUMPTIONS	
1 3 Production Wells (assuming 1,000 feet deep)	
2 12 Monitoring Wells and Piezometers (assume 100 feet deep)	
3 14 days to complete	
Mobilization Fee	750.00
Labor, Per Diem and Rig Daily Costs: \$1,425/day	19,950.00
Production Wells: 3 @ 1,000 feet x \$6.70 /ft	20,100.00
Monitoring Wells and Piezometers: 12 @ 100 feet x \$1/ft	1,200.00
<b>Total Well Abandonment</b>	<b>\$ 42,000.00</b>
<b>POST-CLOSURE MONITORING</b>	
ASSUMPTIONS	
1 monitoring technician (\$65.00 per hour) for 2 weeks per month	
Analytical Cost = \$3,500 per month	
Monitoring: 3 yrs x 1040 hrs/yr x \$65.00	\$ 202,800.00
Analytical: \$3,500/month x 12 mo/yr x 3 yrs	144,000.00
<b>Total Cost for Post-Closure Monitoring</b>	<b>\$ 346,800.00</b>
<b>REMOVAL OF BULK CHEMICALS</b>	
COST TO REMOVE FROM PROPERTY (ASSUMING SOME RESIDUAL AMOUNT OF CHEMICALS)	
A Diesel - 2 truckloads	\$ 1,000.00
B Gasoline - 1 truckload	500.00
C Sulfuric Acid - 4 truckloads	2,000.00
D Diluent - 2 truckloads	1,000.00
<b>Total Cost to Remove Bulk Chemicals</b>	<b>\$ 4,500.00</b>
<b>TESTING OF FOUNDATION CONCRETE FOR HAZARDOUS CONSTITUENTS</b>	
Technician at \$65.00 per hour to test 20 sites (concrete foundation, sumps, and soils outside of sump area) at 3 hours per site	\$ 3,900.00
Additional costs for analytical tests	21,300.00
<b>Total Testing Cost</b>	<b>\$ 25,200.00</b>
<b>DISPOSAL OF WASH WATERS, CLEANING MATERIALS AND WASTES</b>	
Brandenburg Bid	205,520.00
<b>Total Testing Cost</b>	<b>\$ 205,520.00</b>
<b>PUMPING STATIONS</b>	
ASSUMPTION	
2 hrs for D10R/10U Dozer to regrade the surface area	
1 hr for the 75D Challenger to drill seed	
Mob/Demob cost to remote locations \$1500 per move	
<b>Mob/Demob for 5 locations both pieces of equipment and crews:</b>	<b>\$ 15,000.00</b>
<b>Dozer Cost for 5 Stations:</b>	
Equipment	\$ 2,277.54
Labor	306.60
	<b>\$ 2,584.14</b>
<b>Challenger Cost for 1 hour:</b>	
Equipment	\$ 972.39
Revegetation	\$ 538.00
Labor	153.30
	<b>\$ 1,663.69</b>
<b>Total Cost</b>	<b>\$ 19,247.83</b>

**MISCELLANEOUS RECLAMATION COSTS**

<b>Augusta Resource Rosemont PROJECT - LIFE OF MINE ADDITIONAL MISCELLANEOUS RECLAMATION COSTS</b>	
<b>MISCELLANEOUS DATA MANAGEMENT</b>	
Data management for reporting for monitoring and disposal 20 hours per month at \$150 per hour for 3 years	
<b>Total Cost</b>	\$ 108,000.00
<b>RECLAMATION SUPERVISION</b>	
ASSUMPTION 12 months of reclamation x 160 hrs/mo x \$48/hr	
<b>Total Cost</b>	\$ 92,160.00
<b>TOTAL</b>	<b>\$ 843,427.83</b>

1) Technician rate from AZ20030012 12/22/2006 AZ12 for Heavy Construction in Arizona