

COST ESTIMATE

The following cost estimate for remediation and recycling has been prepared in the following table, T-1:

**TABLE T-1  
ESTIMATED COST OF ABATEMENT**

<b>RECOMMENDED ACTION OF HAZARDOUS MATERIAL</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>ESTIMATED COST*</b>
Removal of acoustical ceiling plaster	6,571 s.f.	\$10.00/s.f.	\$65,710.00
Removal of light reflector paper	4 ct.	\$25.00/ea.	\$100.00
Removal of 12" x 12" dark green floor tile and associated mastic	20 s.f.	\$2.00/s.f.	\$40.00
Removal of 12" x 12" forest green floor tile and associated mastic	7 s.f.	\$2.00/s.f.	\$14.00
Removal of 12" x 12" beige floor tile with marble pattern and associated mastic	2,786 s.f.	\$2.00/s.f.	\$5,572.00
Removal of 12" x 12" red floor tile with marble pattern and associated mastic	30 s.f.	\$2.00/s.f.	\$60.00
Removal of 12" x 12" tan floor tile with marble pattern and associated mastic	378 s.f.	\$2.00/s.f.	\$756.00
Removal of 9" x 9" tan floor tile with green streaks and associated mastic	184 s.f.	\$2.00/s.f.	\$368.00
Removal of 9" x 9" black floor tile with cream streaks and associated mastic	142,505 s.f.	\$2.00/s.f.	\$285,010.00
Removal of mastic associated with 12" x 12" floor tile	48 s.f.	\$2.00/s.f.	\$96.00
Removal of mastic associated with green flooring material with black and white specks	94 s.f.	\$2.00/s.f.	\$188.00
Removal of domestic water supply and return pipe joint and hanger insulation (restroom access/pipe chase in hallway walls)	5,994 ct.	\$15.00/ea.	\$89,910.00

Owen Hall Cost Estimate

RECOMMENDED ACTION OF HAZARDOUS MATERIAL	UNITS	UNIT COST	ESTIMATED COST*
Removal of 12" x 12" maroon floor tile and associated mastic	30 s.f.	\$2.00/s.f.	\$60.00
Removal of domestic water supply and return pipe straight insulation (restroom access/pipe chase in hallway walls)	4,725 l.f.	\$10.00/l.f.	\$47,250.00
Removal of drain line pipe joint and hanger insulation	1,029 ct.	\$15.00/ea.	\$15,435.00
Removal of steam condensate supply and return pipe joint and hanger insulation	3,720 ct.	\$15.00/ct.	\$55,800.00
Removal of steam condensate supply and return straight insulation	5,978 l.f.	\$10.00/l.f.	\$59,780.00
Removal of hot water holding tank	80 s.f.	\$10.00/s.f.	\$800.00
Removal of ceramic tile bedding compound	45,642 s.f.	\$6.00/s.f.	\$273,852.00
Removal of window and door frame caulk compound	16,515 l.f.	\$4.00/l.f.	\$66,060.00
Removal of roofing products and materials (built up and membrane)	57,943 s.f.	\$6.00/s.f.	\$347,658.00
Removal of chalkboards and associated glue pods	3 ct.	\$125.00/each	\$375.00
Removal of fire doors and frames	176 ct.	\$250.00/ea.	\$44,000.00
Removal and disposal of hydraulic door closers	156 ct. (10 drums)	\$125.00 hauling fee and \$75.00 per 55 gallon drum	\$875.00
Removal and disposal of emergency lighting and exit sign batteries	188 ct.	\$0.65/pound (\$25.00 minimum charge)	\$200.00
Removal and disposal of fluorescent light ballasts	1,321 ct	\$1.25/ea.	\$1,651.25

Owen Hall Cost Estimate

RECOMMENDED ACTION OF HAZARDOUS MATERIAL	UNITS	UNIT COST	ESTIMATED COST*
Removal and recycling of fluorescent light bulbs	1,703 ct	\$1.25/ea.	\$2,128.75
Removal and disposal of chlorofluorocarbon containing units (air conditioners/drinking fountains)	28 ct.	\$200.00/each	\$5,600.00
Project specification development	40 hours	\$65.00/hr	\$2,600.00
On-site air monitoring with regulatory oversight and reporting	200 days	\$600.00/day	\$120,000.00

**GRAND ESTIMATED TOTAL**

**\$1,491,949.00**

\* The cost estimate includes the removal of those assumed ACM likely to be impacted by the renovation. The estimate can be revised following the destructive testing phase of the project and as the scope of the renovation is refined. The cost estimates are based on five State of Michigan Accredited asbestos abatement workers performing the work and current industry prices. Industry prices may change at any time. It is assumed that the work is performed by licensed, competent organizations. Estimates include all costs of abatement projects except replacement. Estimated cost is based on project size, difficulty, access, and all work being done at one time, etc. Some savings may be possible by combining projects.