

Appendix F Cost Estimate

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PDR ADDCK 04002384
C PDR

PROJECT COST SUMMARY
(UNESCALATED)

RMIDP LEVEL IV TOTALS – UNESCALATED (\$ IN THOUSANDS)
26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	5,467.0	2,664.6	2,422.9	2,001.8	2,001.8	2,001.8	2,001.8	2,001.8	2,001.8
1.1.1.2	Site Services	2,807.4	1,817.0	1,713.6	1,829.7	1,829.7	2,063.7	2,175.7	2,424.7	2,474.7
1.1.2.1	Site Preparations	467.3	126.0	0.0	281.6	293.6	276.6	268.8	0.0	0.0
1.1.2.2	Building Group A	1,564.3	2,654.5	3,517.5	3,321.5	3,485.5	4,090.5	4,117.9	2,093.5	2,269.5
1.1.2.3	Building Group B	8.0	0.0	0.0	0.0	0.0	144.2	1,161.0	528.2	0.0
1.1.2.4	Building Group C	6.4	0.0	0.0	0.0	0.0	0.0	32.9	836.8	25.5
1.1.2.5	Building Group D	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	1,575.9	612.1	891.7	813.7	964.7	110.7	201.7	1,854.3	3,795.1
1.1.3.2	Off-Site Soil	70.2	384.0	338.0	828.3	1,443.7	1,805.1	609.3	52.3	52.3
1.1.4.1	CAMU Groundwater	41.6	90.0	12.0	210.1	158.5	169.1	201.1	710.6	275.0
1.1.4.2	Site-Wide Groundwater	8.1	0.0	0.0	0.0	1.3	84.8	9.0	0.0	0.0
1.1.XX	RMI Settlement Costs	1,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	1,452.7	1,300.0	1,300.0	1,200.0	1,200.0	1,200.0	1,200.0	1,200.0	1,200.0
	Management Reserve	350.0	199.7	250.0	395.1	300.0	360.0	340.0	492.6	307.4
	Project Contingency	0.0	254.6	263.3	470.0	354.0	448.3	435.6	560.0	353.5
	Fee	889.9	741.5	786.0	833.2	883.2	936.2	936.2	936.2	936.2
	S/C Tech. Suppt.	1,712.0	816.0	865.0	917.0	972.0	1,030.0	1,030.0	1,030.0	1,030.0
	RMIDP TOTALS	\$17,930	\$11,660	\$12,360	\$13,100	\$13,890	\$14,720	\$14,720	\$14,720	\$14,720

REMARKS: Totals rounded to nearest ten thousand.

RMIDP LEVEL IV TOTALS – UNESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	2,001.8	2,001.8	2,001.8	2,001.8	2,001.8	1,100.6	548.8	0.0	0.0
1.1.1.2	Site Services	2,564.7	2,520.7	2,034.7	2,213.7	1,938.7	932.0	778.8	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
1.1.2.2	Building Group A	2,999.5	855.5	625.0	1,806.0	3,995.5	733.5	1,384.4	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	48.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	156.6	795.0	200.0	0.0	0.0
1.1.3.1	On-Site Soil	2,245.5	5,001.7	5,945.7	4,382.1	1,260.7	2,129.5	1,939.4	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	65.0	0.0	0.0
1.1.4.1	CAMU Groundwater	991.4	564.4	149.4	149.4	149.4	328.0	71.0	71.0	71.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	1,200.0	1,200.0	1,200.0	1,200.0	1,200.0	1,000.0	700.0	0.0	0.0
	Management Reserve	321.9	413.7	473.2	300.0	300.0	300.0	300.0	3.2	3.2
	Project Contingency	430.0	470.0	550.0	400.0	350.0	350.0	350.0	5.0	5.0
	Fee	936.2	956.2	956.2	917.6	833.3	566.6	465.2	5.8	5.8
	S/C Tech. Suppt.	1,030.0	737.0	737.0	737.0	737.0	737.0	578.5	0.0	0.0
	RMIDP TOTALS	\$14,720	\$14,720	\$14,720	\$14,160	\$12,920	\$9,020	\$7,380	\$90	\$90

REMARKS: Totals rounded to nearest ten thousand.

RMIDP LEVEL IV TOTALS – UNESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34,223.7
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32,119.5
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,764.9
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,514.1
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,889.4
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	949.6
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,156.6
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33,724.5
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,648.2
1.1.4.1	CAMU Groundwater	71.0	71.0	71.0	71.0	71.0	104.0	2,059.9	6,931.9
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.2
1.1.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,952.7
	Management Reserve	3.2	3.2	3.2	3.2	3.2	54.3	200.0	5,680.3
	Project Contingency	5.0	5.0	5.0	5.0	5.0	70.0	250.0	6,394.3
	Fee	5.8	5.8	5.8	5.8	5.8	16.8	184.2	13,751.7
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,695.5
	RMIDP TOTALS	\$90	\$90	\$90	\$90	\$90	\$250	\$2,690	\$219,000

REMARKS: Totals rounded to nearest ten thousand.

RMIDP LEVEL IV M&S SUMMARY - UNESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1	Project Management	1,041.9	593.1	593.1	593.1	593.1	593.1	593.1	593.1	593.1
1.2	Site Services	1,310.8	770.0	768.0	974.0	974.0	1,208.0	1,320.0	1,569.0	1,619.0
1.1.2.1	Site Preparations	75.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	464.2	167.5	167.5	167.5	167.5	167.5	167.5	167.5	167.5
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	175.8	110.7	110.7	110.7	110.7	110.7	110.7	110.7	110.7
1.1.3.2	Off-Site Soil	60.8	79.0	79.0	52.3	52.5	52.3	52.3	52.3	52.3
1.1.4.1	CAMU Groundwater	3.5	0.0	0.0	97.1	97.1	97.1	97.1	105.0	105.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		3,132.7	1,720.3	1,718.3	1,994.7	1,996.2	2,228.7	2,340.7	2,597.6	2,647.6

RMIDP LABOR SUMMARY - UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	1,934.6	1,971.5	1,729.8	1,308.7	1,308.7	1,308.7	1,308.7	1,308.7	1,308.7
1.1.1.2	Site Services	1,496.6	707.0	605.6	505.7	505.7	505.7	505.7	505.7	505.7
1.1.2.1	Site Preparations	211.6	109.0	0.0	146.6	146.6	146.6	146.6	0.0	0.0
1.1.2.2	Building Group A	968.9	1,670.0	1,931.0	1,285.0	1,000.0	1,407.0	1,429.4	1,010.0	977.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	80.0	480.0	250.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	5.0	353.4	5.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	648.1	80.0	400.0	230.4	200.0	0.0	20.0	380.0	1,010.0
1.1.3.2	Off-Site Soil	1.4	105.0	60.0	380.0	700.0	305.6	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	30.1	30.0	0.0	20.0	15.4	62.0	10.0	88.6	70.0
1.1.4.2	Site-Wide Groundwater	0.1	0.0	0.0	0.0	0.0	10.8	1.0	0.0	0.0
RMIDP LABOR TOTALS		5,291.4	4,672.5	4,726.4	3,876.4	3,876.4	3,826.4	3,906.4	3,896.4	3,876.4

RMIDP FLD or S/C SUMMARY - UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	2,490.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.1.1.2	Site Services	0.0	340.0	340.0	350.0	350.0	350.0	350.0	350.0	350.0
1.1.2.1	Site Preparations	180.0	17.0	0.0	135.0	147.0	130.0	122.2	0.0	0.0
1.1.2.2	Building Group A	131.2	817.0	1,419.0	1,869.0	2,318.0	2,516.0	2,521.0	916.0	1,125.0
1.1.2.3	Building Group B	8.0	0.0	0.0	0.0	0.0	64.2	681.0	278.2	0.0
1.1.2.4	Building Group C	6.4	0.0	0.0	0.0	0.0	0.0	27.9	483.4	20.5
1.1.2.5	Building Group D	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	752.0	421.4	381.0	472.6	654.0	0.0	71.0	1,363.6	2,674.4
1.1.3.2	Off-Site Soil	8.0	200.0	199.0	396.0	691.2	1,447.2	557.0	0.0	0.0
1.1.4.1	CAMU Groundwater	8.0	60.0	12.0	93.0	46.0	10.0	94.0	517.0	100.0
1.1.4.2	Site-Wide Groundwater	8.0	0.0	0.0	0.0	0.0	74.0	8.0	0.0	0.0
RMIDP SUBCONTRACTOR TOTALS		3,597.1	1,955.4	2,451.0	3,415.6	4,306.2	4,691.4	4,532.1	4,008.2	4,369.9

ESCALATION FACTOR @ 3%/YR AFTER FISCAL YERA 1999	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
	1.000	1.000	1.000	1.000	1.000	1.000	1.030	1.061	1.093

RMIDP LEVEL IV M&S SUMMARY - UNESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1	Project Management	593.1	593.1	593.1	593.1	593.1	370.5	134.0	0.0	0.0
1.2	Site Services	1,709.0	1,665.0	1,179.0	1,358.0	1,083.0	283.0	236.4	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	147.5	147.5	158.0	158.0	127.5	0.0	597.5	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	48.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0	0.0
1.1.3.1	On-Site Soil	115.7	115.7	115.7	115.7	115.7	115.7	176.0	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	65.0	0.0	0.0
1.1.4.1	CAMU Groundwater	78.4	78.4	78.4	78.4	78.4	257.0	0.0	0.0	0.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		2,641.7	2,599.7	2,172.2	2,351.2	1,997.7	1,026.2	1,408.9	0.0	0.0

RMIDP LABOR SUMMARY - UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	1,308.7	1,308.7	1,308.7	1,308.7	1,308.7	666.6	414.8	0.0	0.0
1.1.1.2	Site Services	505.7	505.7	505.7	505.7	505.7	249.0	220.8	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0
1.1.2.2	Building Group A	1,312.0	0.0	320.0	1,020.0	1,450.0	70.0	786.9	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	40.0	330.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	700.0	2,050.0	1,730.0	1,030.0	560.0	389.8	490.0	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	50.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP LABOR TOTALS		3,876.4	3,876.4	3,876.4	3,876.4	3,876.4	1,727.4	1,924.5	12.0	12.0

RMIDP FLD or S/C SUMMARY - UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	100.0	100.0	100.0	100.0	100.0	63.5	0.0	0.0	0.0
1.1.1.2	Site Services	350.0	350.0	350.0	350.0	350.0	400.0	321.6	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	41.0	0.0	0.0	0.0
1.1.2.2	Building Group A	1,540.0	708.0	147.0	628.0	2,418.0	663.5	0.0	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	116.6	465.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	1,429.8	2,836.0	4,100.0	3,236.4	585.0	1,624.0	1,273.4	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	863.0	474.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP SUBCONTRACTOR TOTALS		4,282.8	4,468.0	4,756.0	4,373.4	3,628.6	3,316.0	1,654.0	59.0	59.0

ESCALATION FACTOR @ 3%/YR
AFTER FISCAL YERA 1999

FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.126	1.159	1.194	1.230	1.267	1.305	1.344	1.384	1.426

RMIDP LEVEL IV M&S SUMMARY – UNESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,256.7
1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,026.2
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,140.2
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,931.6
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	597.8
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,250.9
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
RMIDP M&S TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	34,575.4

RMIDP LABOR SUMMARY – UNESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,113.0
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,841.7
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	917.0
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,637.2
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	810.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	363.4
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	370.0
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,918.3
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,552.0
1.1.4.1	CAMU Groundwater	12.0	12.0	12.0	12.0	12.0	17.0	263.0	812.1
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
RMIDP LABOR TOTALS		12.0	12.0	12.0	12.0	12.0	17.0	263.0	61,346.6

RMIDP FLD or S/C SUMMARY – UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,854.0
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,251.6
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	772.2
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,736.7
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,031.4
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	538.2
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	586.6
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,874.6
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,498.4
1.1.4.1	CAMU Groundwater	59.0	59.0	59.0	59.0	59.0	87.0	1,796.9	4,868.9
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0
RMIDP SUBCONTRACTOR TOTALS		59.0	59.0	59.0	59.0	59.0	87.0	1,796.9	62,102.6

ESCALATION FACTOR @ 3%/YR AFTER FISCAL YERA 1999	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
	1.469	1.513	1.558	1.605	1.653	1.702	1.754

RMI LABOR – UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

VBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1	Project Control	543.1	677.1	522.0	538.0	538.0	538.0	538.0	538.0	538.0
1.1.1.1.2	Technical Support	45.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
1.1.1.1.3	Quality Assurance	334.8	371.5	284.9	153.2	153.2	153.2	153.2	153.2	153.2
1.1.1.1.4	Administration and Training	1,010.9	879.6	879.6	574.2	574.2	574.2	574.2	574.2	574.2
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	993.4	487.0	405.0	314.5	314.5	314.5	314.5	314.5	314.5
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	503.2	220.0	200.6	191.2	191.2	191.2	191.2	191.2	191.2
1.1.2.1	Site Preparations	211.6	109.0	0.0	146.6	146.6	146.6	146.6	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	60.0	0.0	50.0	47.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	242.2	350.0	371.0	385.0	150.0	400.0	180.0	170.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	584.8	600.0	500.0	450.0	350.0	500.0	450.0	400.0	427.0
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	300.0	600.0	300.0	350.0	300.0	500.0	250.0	550.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	141.9	220.0	200.0	150.0	100.0	160.0	200.0	100.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	200.0	200.0	0.0	0.0	0.0	99.4	90.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	350.0	80.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	100.0	150.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	30.0	20.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.0	5.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	15.1	0.0	250.0	0.0	0.0	0.0	10.0	100.0	50.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	350.0
1.1.3.1.5	On-Site Soil Waste Management	569.2	70.0	100.0	100.0	180.0	0.0	0.0	0.0	500.0
1.1.3.1.6	On-Site Soil ES&H	63.8	10.0	50.0	50.4	20.0	0.0	5.0	30.0	70.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	80.0	0.0	0.0	5.0	100.0	40.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	50.0	30.0	50.0	30.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.9	0.0	0.0	50.0	60.0	100.6	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	100.0	500.0	60.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	15.0	10.0	60.0	80.0	100.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.5	40.0	20.0	60.0	30.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	60.0	0.0	45.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	30.1	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	10.0	9.4	56.0	10.0	82.6	70.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	10.0	6.0	6.0	0.0	6.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.1	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.0	0.0
DP LABOR TOTALS (in Thousands)		5,291.4	4,672.5	4,726.4	3,876.4	3,876.4	3,826.4	3,906.4	3,896.4	3,876.4

RMI LABOR – UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

YBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1	Project Control	538.0	538.0	538.0	538.0	538.0	300.0	98.2	0.0	0.0
1.1.1.1.2	Technical Support	43.3	43.3	43.3	43.3	43.3	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	153.2	153.2	153.2	153.2	153.2	66.6	66.6	0.0	0.0
1.1.1.1.4	Administration and Training	574.2	574.2	574.2	574.2	574.2	300.0	250.0	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	314.5	314.5	314.5	314.5	314.5	150.0	141.0	0.0	0.0
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	191.2	191.2	191.2	191.2	191.2	99.0	79.8	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	150.0	150.0	200.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	542.8	0.0	0.0	450.0	700.0	20.0	400.0	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	669.2	0.0	0.0	250.0	450.0	50.0	386.9	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	100.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	70.0	70.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	180.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	70.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	20.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	200.0	700.0	600.0	450.0	510.0	199.8	400.0	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	400.0	950.0	1,000.0	500.0	0.0	60.0	0.0	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	50.0	150.0	130.0	80.0	50.0	50.0	40.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	30.0	50.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	100.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	50.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DP LABOR TOTALS (in Thousands)		3,876.4	3,876.4	3,876.4	3,876.4	3,876.4	1,727.4	1,924.5	12.0	12.0

RMI LABOR – UNESCALATED (\$ IN THOUSANDS)

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VBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,058.4
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	608.7
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,809.6
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,636.3
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,635.9
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,205.8
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	917.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,748.2
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,374.6
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,956.1
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,671.9
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	729.4
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	430.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	545.1
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,559.8
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,429.2
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	849.2
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	385.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	211.5
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	660.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	265.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.5
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	10.0	70.1
1.1.4.1.3	CAMU GW Remediation Ops	12.0	12.0	12.0	12.0	12.0	12.0	30.0	486.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	5.00	200.0	205.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
DP LABOR TOTALS (in Thousands)		12.0	12.0	12.0	12.0	12.0	17.0	263.0	61,346.6

RMI M&S -- UNESCALATED (\$ IN THOUSANDS)
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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1.1	Project Control	37.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
1.1.1.1.2	Technical Support	23.3	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
1.1.1.1.3	Quality Assurance	43.2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
1.1.1.1.4	Administration and Training	937.5	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	573.3	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0
1.1.1.2.2	Equipment Procurement	0.0	126.0	124.0	330.0	330.0	564.0	676.0	925.0	985.0
1.1.1.2.3	Utilities and Miscellaneous	429.3	420.0	420.0	420.0	420.0	420.0	420.0	420.0	410.0
1.1.1.2.4	Safeguards and Security	308.2	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
1.1.2.1	Site Preparations	75.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	116.3	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	343.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	152.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
1.1.3.1.5	On-Site Soil Waste Management	18.1	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
1.1.3.1.6	On-Site Soil ES&H	5.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	59.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.6	40.0	40.0	13.7	13.7	13.7	13.7	13.7	13.7
1.1.3.2.5	Off-Site Soil Waste Management	0.0	20.0	20.0	19.6	19.8	19.6	19.6	19.6	19.6
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.7	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	3.5	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	40.0	40.0	40.0	40.0	43.9	43.9
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	50.0	50.0	50.0	50.0	54.0	54.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMDP M&S TOTALS (\$'s IN THOUSANDS)		3,132.7	1,720.3	1,718.3	1,994.7	1,996.2	2,228.7	2,340.7	2,597.6	2,647.6

RMI M&S - UNESCALATED (\$ IN THOUSANDS)
26-Apr-94

WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1.1	Project Control	30.0	30.0	30.0	30.0	30.0	10.0	10.0	0.0	0.0
1.1.1.1.2	Technical Support	23.0	23.0	23.0	23.0	23.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	24.0	24.0	24.0	24.0	24.0	24.0	24.0	0.0	0.0
1.1.1.1.4	Administration and Training	516.1	516.1	516.1	516.1	516.1	336.5	100.0	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	151.0	151.0	80.0	100.0	100.0	60.0	56.8	0.0	0.0
1.1.1.2.2	Equipment Procurement	1,075.0	1,031.0	616.0	775.0	500.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	410.0	410.0	410.0	410.0	410.0	150.0	106.6	0.0	0.0
1.1.1.2.4	Safeguards and Security	73.0	73.0	73.0	73.0	73.0	73.0	73.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	12.5	12.5	8.0	8.0	12.5	0.0	12.5	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	50.0	50.0	80.0	80.0	50.0	0.0	360.0	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	50.0	50.0	50.0	50.0	40.0	0.0	190.0	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	15.0	15.0	5.0	5.0	15.0	0.0	5.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	20.0	20.0	15.0	15.0	10.0	0.0	30.0	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	6.7	6.7	6.7	6.7	6.7	6.7	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	40.0	40.0	40.0	40.0	40.0	40.0	80.0	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	50.0	50.0	50.0	50.0	50.0	50.0	70.0	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	5.0	5.0	5.0	5.0	5.0	5.0	7.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	10.0	10.0	10.0	10.0	10.0	10.0	17.0	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	4.0	4.0	4.0	4.0	4.0	4.0	2.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.8	0.8	0.8	0.8	0.8	25.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	43.9	43.9	43.9	43.9	43.9	100.0	0.0	0.0	0.0
1.1.4.1.4	CAMU Waste Management	27.4	27.4	27.4	27.4	27.4	120.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	2.3	2.3	2.3	2.3	2.3	5.0	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	3.9	3.9	3.9	3.9	3.9	5.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.1	0.1	0.1	0.1	0.1	2.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS (\$'s IN THOUSANDS)		2,643.7	2,599.7	2,172.2	2,351.2	1,997.7	1,026.2	1,408.9	0.0	0.0

RMIDP Field or S/C Work - UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

VBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1	Project Control	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.2	Technical Support	1,819.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	236.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.1.1.1.5	Technology Development	421.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	0.0	340.0	340.0	350.0	350.0	350.0	350.0	350.0	350.0
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	180.0	17.0	0.0	135.0	147.0	130.0	122.2	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	116.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	163.0	1,145.0	1,587.0	1,627.0	1,175.0	344.0	637.0	899.0
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	93.0	118.0	282.0	691.0	1,341.0	2,053.0	177.0	226.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	561.0	156.0	0.0	0.0	0.0	124.0	102.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	500.0	90.6	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	181.0	187.6	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	64.2	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	430.0	20.5
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	27.9	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	779.6	900.4
1.1.3.1.5	On-Site Soil Waste Management	744.0	371.4	381.0	208.6	654.0	0.0	0.0	0.0	1,613.0
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	50.0	0.0	264.0	0.0	0.0	71.0	584.0	161.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	98.0	246.2	271.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	357.3	1,017.0	557.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	200.0	199.0	126.0	87.7	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	172.0	0.0	159.2	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	50.0	0.0	0.0	94.0	468.0	100.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	12.0	43.0	46.0	10.0	0.0	49.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	72.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	2.0	8.0	0.0	0.0
RMIDP S/C TOTALS (in Thousands)		3,597.1	1,955.4	2,451.0	3,415.6	4,306.2	4,691.4	4,532.1	4,008.2	4,369.9

RMIDP Field or S/C Work – UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

VBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	100.0	100.0	100.0	100.0	100.0	63.5	0.0	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	350.0	350.0	350.0	350.0	350.0	400.0	321.6	0.0	0.0
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	41.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	720.0	0.0	0.0	319.0	1,387.0	93.0	0.0	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	820.0	708.0	0.0	0.0	1,031.0	570.5	0.0	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	147.0	309.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	337.8	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	127.2	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	116.6	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	337.0	966.0	1,076.0	1,029.3	585.0	802.0	917.0	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	935.0	1,715.0	3,024.0	2,207.1	0.0	259.0	0.0	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	157.8	51.0	0.0	0.0	0.0	563.0	0.0	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	104.0	0.0	0.0	0.0	0.0	356.4	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	863.0	474.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP S/C TOTALS (in Thousands)		4,282.8	4,468.0	4,756.0	4,373.4	3,628.6	3,316.0	1,654.0	59.0	59.0

RMIDP Field or S/C Work – UNESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,819.5
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,600.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	421.6
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,251.6
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	772.2
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.2
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,096.0
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,110.5
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,399.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	590.6
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	368.6
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.2
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	450.5
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.8
1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127.2
1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.6
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,392.3
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12,112.1
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,901.8
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	460.4
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	615.2
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,931.3
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	612.7
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.2
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0
1.1.4.1.3	CAMU GW Remediation Ops	59.0	59.0	59.0	59.0	59.0	59.0	266.4	3,082.4
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	28.0	1,313.3	1,341.3
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	208.2	208.2
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
RMIDP S/C TOTALS (in Thousands)		59.0	59.0	59.0	59.0	59.0	87.0	1,796.9	62,102.6

PROJECT COST SUMMARY
(ESCALATION)

RMIDP LEVEL IV TOTALS - ESCALATION ONLY (\$ IN THOUSANDS)

26-Apr-94

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YBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	60.1	121.9	185.6
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	65.3	147.7	229.5
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	123.5	127.5	210.4
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	34.8	32.2	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	1.0	51.0	2.4
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	6.1	112.9	351.9
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	18.3	3.2	4.8
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	6.0	43.3	25.5
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
1.1.XX	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	36.0	73.1	111.3
	Management Reserve	0.0	0.0	0.0	0.0	0.0	0.0	10.2	30.0	28.5
	Project Contingency	0.0	0.0	0.0	0.0	0.0	0.0	13.1	34.1	32.8
	Fee	0.0	0.0	0.0	0.0	0.0	0.0	28.1	57.0	86.8
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	30.9	62.7	95.5
	RMIDP TOTALS	\$0	\$0	\$0	\$0	\$0	\$0	\$440	\$900	\$1,370

REMARKS: Totals rounded to the nearest ten thousand.

RMIDP LEVEL IV TOTALS – ESCALATION ONLY (\$ IN THOUSANDS)

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BS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	251.2	318.8	388.5	460.2	534.0	335.4	188.7	0.0	0.0
1.1.1.2	Site Services	321.9	401.5	394.8	508.9	517.2	284.0	267.8	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0
1.1.2.2	Building Group A	376.5	136.3	121.3	415.2	1,065.9	223.6	476.1	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	41.8	242.3	68.8	0.0	0.0
1.1.3.1	On-Site Soil	281.8	796.6	1,153.8	1,007.3	336.3	649.0	667.0	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.0	0.0
1.1.4.1	CAMU Groundwater	124.4	89.9	29.0	34.3	39.9	100.0	24.4	27.3	30.2
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	150.6	191.1	232.9	275.8	320.1	304.8	240.7	0.0	0.0
	Management Reserve	40.4	65.9	91.8	69.0	80.0	91.4	103.2	1.2	1.4
	Project Contingency	54.0	74.9	106.7	91.9	93.4	106.7	120.4	1.9	2.1
	Fee	117.5	152.3	185.6	210.9	222.3	172.7	160.0	2.2	2.5
	S/C Tech. Suppt.	129.3	117.4	143.0	169.4	196.6	224.6	199.0	0.0	0.0
	RMIDP TOTALS	\$1,850	\$2,340	\$2,860	\$3,250	\$3,450	\$2,750	\$2,540	\$30	\$40

REMARKS: Totals rounded to the nearest ten thousand.

RMIDP LEVEL IV TOTALS - ESCALATION ONLY (\$ IN THOUSANDS)

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BS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,844.5
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,138.6
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,276.2
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.3
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.9
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,362.8
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7
1.1.4.1	CAMU Groundwater	33.3	36.4	39.6	42.9	46.4	73.1	1,552.1	2,398.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
1.1.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,936.4
	Management Reserve	1.5	1.6	1.8	1.9	2.1	38.1	150.7	810.8
	Project Contingency	2.3	2.6	2.8	3.0	3.3	49.2	188.4	983.4
	Fee	2.7	3.0	3.2	3.5	3.8	11.8	138.3	1,564.7
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,368.4
	RMIDP TOTALS	\$40	\$40	\$50	\$50	\$60	\$170	\$2,030	\$24,250

REMARKS: Totals rounded to the nearest ten thousand.

RMIDP LEVEL IV M&S SUMMARY -- ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	17.8	36.1	55.0
1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	39.6	95.6	150.1
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.2	15.5
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.7	10.3
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.4	9.7
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	70.2	158.2	245.5

RMIDP LABOR SUMMARY -- ESCALATION ONLY (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	39.3	79.7	121.4
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	15.2	30.8	46.9
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	42.9	61.5	90.6
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	14.4	15.2	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.1	21.5	0.5
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.6	23.1	93.7
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.4	6.5
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP LABOR TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	117.2	237.3	359.4

RMIDP FLD or S/C SUMMARY -- ESCALATION ONLY (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.3
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	10.5	21.3	32.5
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	75.6	55.8	104.3
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	20.4	16.9	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.8	29.4	1.9
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	2.1	83.0	248.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	2.8	31.5	9.3
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
RMIDP SUBCONTRACTOR TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	136.0	244.1	405.2

RMIDP LEVEL IV M&S SUMMARY - ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1	Project Management	74.4	94.5	115.1	136.3	158.2	112.9	46.1	0.0	0.0
1.1.2	Site Services	214.5	265.2	228.8	312.2	288.9	86.3	81.3	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	18.5	23.5	30.7	36.3	34.0	0.0	205.5	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	68.8	0.0	0.0
1.1.3.1	On-Site Soil	14.5	18.4	22.5	26.6	30.9	35.3	60.5	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.0	0.0
1.1.4.1	CAMU Groundwater	9.8	12.5	15.2	18.0	20.9	78.3	0.0	0.0	0.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		331.8	414.1	421.5	540.5	532.9	312.8	484.5	0.0	0.0

RMIDP LABOR SUMMARY - ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	164.3	208.4	254.0	300.8	349.1	203.2	142.7	0.0	0.0
1.1.1.2	Site Services	63.5	80.5	98.1	116.2	134.9	75.9	75.9	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
1.1.2.2	Building Group A	164.7	0.0	62.1	234.5	386.8	21.3	270.6	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	10.7	100.8	0.0	0.0	0.0
1.1.3.1	On-Site Soil	87.9	326.5	335.7	236.8	149.4	118.8	168.5	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	6.3	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.1
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP LABOR TOTALS		486.5	617.4	752.2	891.1	1,034.1	526.5	661.9	4.6	5.1

RMIDP FLD or S/C SUMMARY - ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	12.6	15.9	19.4	23.0	26.7	19.4	0.0	0.0	0.0
1.1.1.2	Site Services	43.9	55.7	67.9	80.5	93.4	121.9	110.6	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0
1.1.2.2	Building Group A	193.3	112.8	28.5	144.4	645.1	202.2	0.0	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	31.1	141.7	0.0	0.0	0.0
1.1.3.1	On-Site Soil	179.5	451.7	795.6	744.0	156.1	495.0	437.9	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	108.3	75.5	11.4	13.6	15.7	18.0	20.3	22.7	25.1
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP SUBCONTRACTOR TOTALS		537.5	711.6	922.9	1,005.3	968.0	1,010.6	568.8	22.7	25.1

RMIDP LEVEL IV M&S SUMMARY – ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	846.5
1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,762.4
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	379.2
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	229.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	173.8
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,512.0

RMIDP LABOR SUMMARY – ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,862.7
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	738.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,335.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.2
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,541.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	5.6	6.2	6.7	7.3	7.8	11.9	198.2	289.8
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP LABOR TOTALS		5.6	6.2	6.7	7.3	7.8	11.9	198.2	5,937.0

RMIDP FLD or S/C SUMMARY – ESCALATION ONLY (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.3
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	638.2
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,561.9
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.4
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.8
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,592.8
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
1.1.4.1	CAMU Groundwater	27.6	30.2	32.9	35.7	38.5	61.1	1,354.0	1,934.3
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
RMIDP SUBCONTRACTOR TOTALS		27.6	30.2	32.9	35.7	38.5	61.1	1,354.0	8,136.0

RMIDP Labor/M&S/Fid&SC – ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	17.0	34.6	52.7
1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	6.1
1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.8	16.4
1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	35.7	72.5	110.4
1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	24.5	49.7	75.6
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	20.3	56.3	91.3
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	12.6	25.6	38.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	7.9	16.1	24.5
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.1	1.2
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	26.2	68.0	130.4
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	78.1	29.0	76.6
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.4	0.5
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	7.3	12.9	1.9
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	25.5	10.4	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	8.4	20.6	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.2	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5	2.4
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.4	6.2	4.8
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	1.2	59.0	119.7
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	200.6
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1	7.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	2.6	42.3	19.6
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.3
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	17.3	1.2	1.8
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.4
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	4.3	36.2	19.8
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.3	5.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.5	0.2
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
1.1.X.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	36.0	73.1	111.3
	Management Reserve	0.0	0.0	0.0	0.0	0.0	0.0	10.2	30.0	28.5
	Project Contingency	0.0	0.0	0.0	0.0	0.0	0.0	13.1	34.1	32.8
	Fee	0.0	0.0	0.0	0.0	0.0	0.0	28.1	57.0	86.8
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	30.9	62.7	95.5
	RMIDP M&S/LABOR/SUBCONT. TOTALS	0.0	0.0	0.0	0.0	0.0	0.0	441.6	896.5	1,365.0

RMIDP Labor/M&S/Fid&SC – ESCALATION ONLY (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Control	71.3	90.5	110.2	130.6	151.5	94.5	37.2	0.0	0.0
1.1.1.2	Technical Support	8.3	10.6	12.9	15.2	17.7	0.0	0.0	0.0	0.0
1.1.1.3	Quality Assurance	22.2	26.2	34.4	40.7	47.3	27.6	31.2	0.0	0.0
1.1.1.4	Administration and Training	149.4	189.6	231.0	273.6	317.5	213.3	120.4	0.0	0.0
1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	102.4	129.9	144.5	175.7	203.9	185.9	178.6	0.0	0.0
1.1.1.2.2	Equipment Procurement	134.9	164.2	119.5	178.2	133.4	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	51.5	65.3	79.6	94.2	109.4	45.7	36.7	0.0	0.0
1.1.1.2.4	Safeguards and Security	33.2	42.1	51.3	60.7	70.5	52.4	52.6	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	1.6	2.0	30.7	36.3	56.7	0.0	4.3	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	164.8	8.0	15.5	195.2	570.1	34.4	261.4	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	193.2	120.7	9.7	69.0	405.8	189.1	198.4	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	14.4	2.4	20.4	24.1	30.7	0.0	1.7	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	2.5	3.2	45.0	90.6	2.7	0.0	10.3	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	127.3	27.5	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	93.6	34.4	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	21.3	3.4	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	41.8	0.0	3.4	0.0	0.0
1.1.3.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	3.4	17.0	1.3	1.5	1.8	2.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	72.4	271.7	333.0	349.2	302.8	317.5	480.5	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	173.8	432.4	790.6	633.8	13.3	112.5	24.1	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	6.9	24.7	26.2	19.5	14.7	16.8	16.2	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	24.8	17.7	1.9	2.3	2.7	199.0	5.8	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.5	33.1	0.8	0.9	1.1	1.2	140.5	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.1	0.1	0.2	0.2	0.2	7.6	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	120.1	84.4	22.3	26.4	30.7	52.1	24.4	27.3	30.2
1.1.4.1.4	CAMU Waste Management	3.4	4.4	5.3	6.3	7.3	36.6	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.3	0.4	0.4	0.5	0.6	1.5	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.5	0.6	0.8	0.9	1.0	1.5	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.X.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	150.6	191.1	232.9	275.8	320.1	304.8	240.7	0.0	0.0
	Management Reserve	40.4	65.9	91.8	69.0	80.0	91.4	103.2	1.2	1.4
	Project Contingency	54.0	74.9	106.7	91.9	93.4	106.7	120.4	1.9	2.1
	Fees	117.5	152.3	185.6	210.9	222.3	172.7	160.0	2.2	2.5
	S/C Tech. Suppt.	129.3	117.4	143.0	169.4	196.6	224.6	199.0	0.0	0.0
	RMIDP M&S/LABOR/SUBCONT. TOTALS	1,847.6	2,344.7	2,856.7	3,254.0	3,447.5	2,750.0	2,538.5	32.7	36.2

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	790.1
1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.8
1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	264.2
1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,713.4
1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,270.7
1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	898.2
1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	558.5
1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	411.2
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.6
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,473.9
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,369.6
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.7
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.3
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.8
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.8
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2
1.1.3.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,307.0
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,385.6
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.3
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.7
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.8
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	7.5	16.1
1.1.4.1.3	CAMU GW Remediation Ops	33.3	36.4	39.6	42.9	46.4	49.9	223.3	950.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	23.2	1,140.3	1,236.6
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	172.7	178.7
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	8.3	9.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
1.1.XXX	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,936.4
	Management Reserve	1.5	1.6	1.8	1.9	2.1	38.1	150.7	810.8
	Project Contingency	2.3	2.6	2.8	3.0	3.3	49.2	188.4	983.4
	Fee	2.7	3.0	3.2	3.5	3.8	11.8	138.8	1,564.7
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,368.4
	RMIDP M&S/LABOR/SUBCONT. TOTALS	39.8	43.6	47.4	51.4	55.5	172.1	2,030.0	24,250.8

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BS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	16.1	32.8	49.9
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	4.0
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.3	14.2
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	17.2	35.0	53.2
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	9.4	19.2	29.2
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	5.7	11.6	17.7
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.4	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	13.5	24.4	39.6
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	15.0	15.2	51.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.1	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.5	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	10.5	4.9	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.2	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.5
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.1	4.6
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	32.5
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.4
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	6.5
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.1	3.7
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.0	6.5
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IDP M&S TOTALS (in Thousand)		0.0	0.0	0.0	0.0	0.0	0.0	117.2	237.3	359.4

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Control	67.5	85.7	104.4	123.7	143.5	91.4	33.8	0.0	0.0
1.1.1.1.2	Technical Support	5.4	6.9	8.4	10.0	11.6	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	19.2	24.4	29.7	35.2	40.9	20.3	22.9	0.0	0.0
1.1.1.1.4	Administration and Training	72.1	91.5	111.4	132.0	153.2	91.4	86.0	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	39.5	50.1	61.0	72.3	83.9	45.7	48.5	0.0	0.0
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	24.0	30.5	37.1	44.0	51.0	30.2	27.4	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	29.1	34.5	53.4	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	68.1	0.0	0.0	103.4	186.7	6.1	137.6	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	84.0	0.0	0.0	57.5	120.0	15.2	133.1	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	12.6	0.0	19.4	23.0	26.7	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	13.6	16.1	0.0	0.0	0.0	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	24.4	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	54.9	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	2.5	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	25.1	111.5	116.4	103.4	136.1	60.9	137.6	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	50.2	151.3	194.1	114.9	0.0	18.3	0.0	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	6.3	23.9	25.2	18.4	13.3	15.2	13.8	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	3.8	8.0	0.0	0.0	0.0	24.4	0.0	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	15.9	0.0	0.0	0.0	0.0	17.2	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	6.3	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.1
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IDP M&S TOTALS (in Thousand)		486.5	617.4	752.2	891.1	1,034.1	526.5	661.9	4.6	5.1

RMI M&S – ESCALATION ONLY (\$ IN THOUSANDS)

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IBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1.1	Project Control	3.8	4.8	5.8	6.9	8.0	3.0	3.4	0.0	0.0
1.1.1.1.2	Technical Support	2.9	3.7	4.5	5.3	6.1	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	3.0	3.8	4.7	5.5	6.4	7.3	8.3	0.0	0.0
1.1.1.1.4	Administration and Training	64.8	82.2	100.2	118.6	137.7	102.6	34.4	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	19.0	24.1	15.5	23.0	26.7	18.3	19.5	0.0	0.0
1.1.1.2.2	Equipment Procurement	134.9	164.2	119.5	178.2	133.4	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	51.5	65.3	79.6	94.2	109.4	45.7	36.7	0.0	0.0
1.1.1.2.4	Safeguards and Security	9.2	11.6	14.2	16.8	19.5	22.2	25.1	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	1.6	2.0	1.6	1.8	3.3	0.0	4.3	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	6.3	8.0	15.5	18.4	13.3	0.0	123.8	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	6.3	8.0	9.7	11.5	10.7	0.0	65.3	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	1.9	2.4	1.0	1.1	4.0	0.0	1.7	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	2.5	3.2	2.9	3.4	2.7	0.0	10.3	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	27.5	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	34.4	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.8	1.1	1.3	1.5	1.8	2.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	5.0	6.4	7.8	9.2	10.7	12.2	27.5	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	6.3	8.0	9.7	11.5	13.3	15.2	24.1	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	0.6	0.8	1.0	1.1	1.3	1.5	2.4	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	1.3	1.6	1.9	2.3	2.7	3.0	5.8	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.5	0.6	0.8	0.9	1.1	1.2	0.7	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.1	0.1	0.2	0.2	0.2	7.6	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	5.5	7.0	8.5	10.1	11.7	30.5	0.0	0.0	0.0
1.1.4.1.4	CAMU Waste Management	3.4	4.4	5.3	6.3	7.3	36.6	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.3	0.4	0.4	0.5	0.6	1.5	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.5	0.6	0.8	0.9	1.0	1.5	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS (\$'s in Thousand)		331.8	414.1	421.5	540.5	532.9	312.8	484.5	0.0	0.0

RMRMIDP SubContracts – ESCALATION ONLY (\$ IN THOUSANDS)

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BS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.3
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	10.5	21.3	32.5
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	10.3	36.8	83.4
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	61.6	10.8	21.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	3.7	6.2	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	15.0	5.5	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	5.4	11.4	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	1.9
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5	83.5
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.6
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	2.1	35.6	14.9
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	2.8	28.5	9.3
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
RMRMIDP M&S TOTALS (in Thousand)		0.0	0.0	0.0	0.0	0.0	0.0	136.0	244.1	405.2

RMRMIDP SubContracts – ESCALATION ONLY (\$ IN THOUSANDS)

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S No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.3
1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	638.2
1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	694.5
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	757.9
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	109.5
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,488.4
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,713.2
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	252.1
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.1
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	27.6	30.2	32.9	35.7	38.5	41.4	200.7	758.4
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	19.7	989.6	1,009.2
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	156.9	156.9
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.8
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
OP M&S TOTALS (in Thousand)		27.6	30.2	32.9	35.7	38.5	61.1	1,354.0	8,138.0

PROJECT COST SUMMARY
(ESCALATED)

RMIDP LEVEL IV TOTALS - ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	5,467.0	2,664.6	2,422.9	2,001.8	2,001.8	2,001.8	2,061.9	2,123.7	2,187.4
1.1.1.2	Site Services	2,807.4	1,817.0	1,713.6	1,829.7	1,829.7	2,063.7	2,241.0	2,572.4	2,704.2
1.1.2.1	Site Preparations	467.3	126.0	0.0	281.6	293.6	276.6	276.9	0.0	0.0
1.1.2.2	Building Group A	1,564.3	2,654.5	3,517.5	3,321.5	3,485.5	4,090.5	4,241.4	2,221.0	2,479.9
1.1.2.3	Building Group B	8.0	0.0	0.0	0.0	0.0	144.2	1,195.8	560.4	0.0
1.1.2.4	Building Group C	6.4	0.0	0.0	0.0	0.0	0.0	33.9	887.8	27.9
1.1.2.5	Building Group D	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	1,575.9	612.1	891.7	813.7	964.7	110.7	207.8	1,967.2	4,147.0
1.1.3.2	Off-Site Soil	70.2	384.0	338.0	828.3	1,443.7	1,805.1	627.6	55.5	57.1
1.1.4.1	CAMU Groundwater	41.6	90.0	12.0	210.1	158.5	169.1	207.1	753.9	300.5
1.1.4.2	Site-Wide Groundwater	8.1	0.0	0.0	0.0	1.3	84.8	9.3	0.0	0.0
1.1.X.X	RMI Settlement Costs	1,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	1,452.7	1,300.0	1,300.0	1,200.0	1,200.0	1,200.0	1,236.0	1,273.1	1,311.3
	Management Reserve	350.0	199.7	250.0	395.1	300.0	360.0	350.2	522.6	335.9
	Project Contingency	0.0	254.6	263.3	470.0	354.0	448.3	448.7	594.1	386.3
	Fee	889.9	741.5	786.0	833.2	883.2	936.2	964.3	993.2	1,023.0
	S/C Tech. Suppt.	1,712.0	816.0	865.0	917.0	972.0	1,030.0	1,060.9	1,092.7	1,125.5
	RMIDP TOTALS	\$17,930	\$11,660	\$12,360	\$13,100	\$13,890	\$14,720	\$15,160	\$15,620	\$16,090

REMARKS: Totals rounded to nearest ten thousand.

RMIDP LEVEL IV TOTALS - ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	2,253.0	2,320.6	2,390.3	2,462.0	2,535.8	1,436.0	737.5	0.0	0.0
1.1.1.2	Site Services	2,886.6	2,922.2	2,429.5	2,722.6	2,455.9	1,216.0	1,046.6	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	66.5	0.0	0.0	0.0
1.1.2.2	Building Group A	3,376.0	991.8	746.3	2,221.2	5,061.4	957.1	1,860.5	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	57.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	59.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	198.4	1,037.3	268.8	0.0	0.0
1.1.3.1	On-Site Soil	2,527.3	5,798.3	7,099.5	5,389.4	1,597.0	2,778.5	2,606.4	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	87.4	0.0	0.0
1.1.4.1	CAMU Groundwater	1,115.8	654.3	178.4	183.7	189.3	428.0	95.4	98.3	101.2
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	1,350.6	1,391.1	1,432.9	1,475.8	1,520.1	1,304.8	940.7	0.0	0.0
	Management Reserve	362.3	479.6	565.0	369.0	380.0	391.4	403.2	4.4	4.6
	Project Contingency	484.0	544.9	656.7	491.9	443.4	456.7	470.4	6.9	7.1
	Fee	1,053.7	1,108.5	1,141.8	1,128.5	1,055.6	739.3	625.1	8.0	8.3
	S/C Tech. Suppt.	1,159.3	854.4	880.0	906.4	933.6	961.6	777.5	0.0	0.0
	RMIDP TOTALS	\$16,570	\$17,070	\$17,587	\$17,410	\$16,370	\$11,770	\$9,920	\$118	\$121

REMARKS: Totals rounded to nearest ten thousand.

RMIDP LEVEL IV TOTALS – ESCALATED (\$ IN THOUSANDS)

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BS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37,068.2
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35,258.1
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,788.5
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42,790.3
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,965.7
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,014.9
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,509.5
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39,087.3
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,696.9
1.1.4.1	CAMU Groundwater	104.3	107.4	110.6	113.9	117.4	177.1	3,612.0	9,329.9
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.4
1.1.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,889.1
	Management Reserve	4.7	4.8	5.0	5.1	5.3	92.4	350.7	6,491.0
	Project Contingency	7.3	7.6	7.8	8.0	8.3	119.2	438.4	7,377.7
	Fee	8.5	8.8	9.1	9.3	9.6	28.5	323.0	15,316.4
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,063.9
	RMIDP TOTALS	\$125	\$129	\$132	\$136	\$141	\$417	\$4,724	\$243,300.0

REMARKS: Totals rounded to nearest ten thousand.

RMIDP LEVEL IV M&S SUMMARY - ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1	Project Management	1,041.9	593.1	593.1	593.1	593.1	593.1	610.9	629.2	648.1
1.1.2	Site Services	1,310.8	770.0	768.0	974.0	974.0	1,208.0	1,359.6	1,654.6	1,769.1
1.1.2.1	Site Preparations	75.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	464.2	167.5	167.5	167.5	167.5	167.5	172.5	177.7	183.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	175.8	110.7	110.7	110.7	110.7	110.7	114.0	117.4	121.0
1.1.3.2	Off-Site Soil	60.8	79.0	79.0	52.3	52.5	52.3	53.9	55.5	57.1
1.1.4.1	CAMU Groundwater	3.5	0.0	0.0	97.1	97.1	97.1	100.0	111.4	114.7
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		3,132.7	1,720.3	1,718.3	1,994.7	1,996.2	2,228.7	2,410.9	2,755.8	2,893.1

RMIDP LABOR SUMMARY - ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	1,934.6	1,971.5	1,729.8	1,308.7	1,308.7	1,308.7	1,348.0	1,388.4	1,430.1
1.1.1.2	Site Services	1,496.6	707.0	605.6	505.7	505.7	505.7	520.9	536.5	552.6
1.1.2.1	Site Preparations	211.6	109.0	0.0	146.6	146.6	146.6	151.0	0.0	0.0
1.1.2.2	Building Group A	968.9	1,670.0	1,931.0	1,285.0	1,000.0	1,407.0	1,472.3	1,071.5	1,067.6
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	80.0	494.4	265.2	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	5.2	374.9	5.5
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	648.1	80.0	400.0	230.4	200.0	0.0	20.6	403.1	1,103.7
1.1.3.2	Off-Site Soil	1.4	105.0	60.0	380.0	700.0	305.6	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	30.1	30.0	0.0	20.0	15.4	62.0	10.3	94.0	76.5
1.1.4.2	Site-Wide Groundwater	0.1	0.0	0.0	0.0	0.0	10.8	1.0	0.0	0.0
RMIDP LABOR TOTALS		5,291.4	4,672.5	4,726.4	3,876.4	3,876.4	3,826.4	4,023.6	4,133.7	4,235.8

RMIDP FLD or S/C SUMMARY - ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Management	2,490.5	100.0	100.0	100.0	100.0	100.0	103.0	106.1	109.3
1.1.1.2	Site Services	0.0	340.0	340.0	350.0	350.0	350.0	360.5	371.3	382.5
1.1.2.1	Site Preparations	180.0	17.0	0.0	135.0	147.0	130.0	125.9	0.0	0.0
1.1.2.2	Building Group A	131.2	817.0	1,419.0	1,869.0	2,318.0	2,516.0	2,596.6	971.8	1,229.3
1.1.2.3	Building Group B	8.0	0.0	0.0	0.0	0.0	64.2	701.4	295.1	0.0
1.1.2.4	Building Group C	6.4	0.0	0.0	0.0	0.0	0.0	28.7	512.8	22.4
1.1.2.5	Building Group D	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1	On-Site Soil	752.0	421.4	381.0	472.6	654.0	0.0	73.1	1,446.6	2,922.4
1.1.3.2	Off-Site Soil	8.0	200.0	199.0	396.0	691.2	1,447.2	573.7	0.0	0.0
1.1.4.1	CAMU Groundwater	8.0	60.0	12.0	93.0	46.0	10.0	96.8	548.5	109.3
1.1.4.2	Site-Wide Groundwater	8.0	0.0	0.0	0.0	0.0	74.0	8.2	0.0	0.0
RMIDP SUBCONTRACTOR TOTALS		3,597.1	1,955.4	2,451.0	3,415.6	4,306.2	4,691.4	4,668.1	4,252.3	4,775.1

RMIDP LEVEL IV M&S SUMMARY – ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1	Project Management	667.5	687.6	708.2	729.4	751.3	483.4	180.1	0.0	0.0
1.2	Site Services	1,923.5	1,930.2	1,407.8	1,670.2	1,371.9	369.3	317.7	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2	Building Group A	166.0	171.0	188.7	194.3	161.5	0.0	803.0	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	57.3	0.0	0.0	0.0	3.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	59.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	268.8	0.0	0.0
1.1.3.1	On-Site Soil	130.2	134.1	138.2	142.3	146.6	151.0	236.5	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	87.4	0.0	0.0
1.1.4.1	CAMU Groundwater	88.2	90.9	93.6	96.4	99.3	335.3	0.0	0.0	0.0
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS		2,975.5	3,013.8	2,593.7	2,891.7	2,530.6	1,339.0	1,893.4	0.0	0.0

RMIDP LABOR SUMMARY – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	1,473.0	1,517.1	1,562.7	1,609.5	1,657.8	869.8	557.5	0.0	0.0
1.1.1.2	Site Services	569.2	586.2	603.8	621.9	640.6	324.9	296.7	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0
1.1.2.2	Building Group A	1,476.7	0.0	382.1	1,254.5	1,836.8	91.3	1,057.5	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	50.7	430.6	0.0	0.0	0.0
1.1.3.1	On-Site Soil	787.9	2,376.5	2,065.7	1,266.8	709.4	508.6	658.5	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	CAMU Groundwater	56.3	13.9	14.3	14.8	15.2	15.7	16.1	16.6	17.1
4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP LABOR TOTALS		4,362.9	4,493.8	4,628.6	4,767.5	4,910.5	2,253.9	2,586.4	16.6	17.1

RMIDP FLD or S/C SUMMARY – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Management	112.6	115.9	119.4	123.0	126.7	82.9	0.0	0.0	0.0
1.1.1.2	Site Services	393.9	405.7	417.9	430.5	443.4	521.9	432.2	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	53.5	0.0	0.0	0.0
1.1.2.2	Building Group A	1,733.3	820.8	175.5	772.4	3,063.1	865.7	0.0	0.0	0.0
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	147.7	606.7	0.0	0.0	0.0
1.1.3.1	On-Site Soil	1,609.3	3,287.7	4,895.6	3,980.4	741.1	2,119.0	1,711.3	0.0	0.0
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1	CAMU Groundwater	97.3	549.5	70.4	72.6	74.7	77.0	79.3	81.7	84.1
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP SUBCONTRACTOR TOTALS		4,820.3	5,179.6	5,678.9	5,378.7	4,596.6	4,326.6	2,222.8	81.7	84.1

RMIDP LEVEL IV M&S SUMMARY – ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,103.2
1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,788.6
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,519.4
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.3
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	268.8
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,160.6
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	629.8
1.1.4.1	CAMU Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,424.7
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
RMIDP M&S TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	38,088.4

RMIDP LABOR SUMMARY – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22,975.7
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,579.7
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	924.4
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17,972.2
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	839.6
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	385.5
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	481.2
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,459.3
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,552.0
1.1.4.1	CAMU Groundwater	17.6	18.2	18.7	19.3	19.8	28.9	461.2	1,101.9
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
RMIDP LABOR TOTALS		17.6	18.2	18.7	19.3	19.8	28.9	461.2	67,283.6

RMIDP FLD or S/C SUMMARY – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,989.3
1.1.1.2	Site Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,889.8
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	788.4
1.1.2.2	Building Group A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,298.6
1.1.2.3	Building Group B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,068.8
1.1.2.4	Building Group C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	570.4
1.1.2.5	Building Group D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	759.4
1.1.3.1	On-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25,467.4
1.1.3.2	Off-Site Soil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,515.1
1.1.4.1	CAMU Groundwater	86.6	89.2	91.9	94.7	97.5	148.1	3,150.9	6,803.2
1.1.4.2	Site-Wide Groundwater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.2
RMIDP SUBCONTRACTOR TOTALS		86.6	89.2	91.9	94.7	97.5	148.1	3,150.9	70,240.6

RMIDP Labor/M&S/Fid&SC – ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1.1	Project Control	593.9	707.1	552.0	568.0	568.0	568.0	585.0	602.6	620.7
1.1.1.1.2	Technical Support	1,888.6	66.3	66.3	66.3	66.3	66.3	68.3	70.3	72.4
1.1.1.1.3	Quality Assurance	378.0	395.5	308.9	177.2	177.2	177.2	182.5	188.0	193.6
1.1.1.1.4	Administration and Training	2,184.9	1,495.7	1,495.7	1,190.3	1,190.3	1,190.3	1,226.0	1,262.8	1,300.7
1.1.1.1.5	Technology Development	421.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	1,566.7	978.0	896.0	815.5	815.5	815.5	840.0	865.2	891.1
1.1.1.2.2	Equipment Procurement	0.0	126.0	124.0	330.0	330.0	564.0	696.3	981.3	1,076.3
1.1.1.2.3	Utilities and Miscellaneous	429.3	420.0	420.0	420.0	420.0	420.0	432.6	445.6	448.0
1.1.1.2.4	Safeguards and Security	811.4	293.0	273.6	264.2	264.2	264.2	272.1	280.3	288.7
1.1.2.1	Site Preparations	467.3	126.0	0.0	281.6	293.6	276.6	276.9	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	15.0	0.0	60.0	0.0	50.0	4.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	474.7	362.5	383.5	397.5	162.5	412.5	198.3	193.6	13.7
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	928.2	843.0	1,725.0	2,117.0	2,057.0	1,755.0	900.2	1,185.0	1,536.4
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	443.0	768.0	632.0	1,091.0	1,691.0	2,681.1	506.0	902.6
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	146.4	225.0	205.0	155.0	105.0	165.0	211.2	111.4	5.5
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	781.0	376.0	20.0	20.0	20.0	250.7	224.9	21.9
1.1.2.3.1	Bldg Gr. B Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	875.5	181.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	289.4	358.2	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	30.9	21.2	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	144.2	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	774.5	27.9
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	30.8	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	167.2	1.7	251.7	1.7	1.7	1.7	12.1	107.9	56.5
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	40.0	40.0	40.0	40.0	40.0	41.2	1,028.6	1,410.1
1.1.3.1.5	On-Site Soil Waste Management	1,331.3	491.4	531.0	358.6	884.0	50.0	51.5	53.0	2,363.6
1.1.3.1.6	On-Site Soil ES&H	69.4	15.0	55.0	55.4	25.0	5.0	10.3	37.1	82.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	60.0	10.0	354.0	10.0	10.0	88.6	736.3	230.6
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	4.0	4.0	4.0	4.0	4.0	4.1	4.2	4.4
1.1.3.2.1	Off-Site Soil Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	59.5	50.0	30.0	50.0	30.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	1.5	40.0	40.0	161.7	319.9	385.3	14.1	14.5	15.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	20.0	20.0	119.6	877.1	1,096.6	593.9	20.8	21.4
1.1.3.2.6	Off-Site Soil ES&H	0.0	15.0	10.0	60.0	80.0	100.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	1.2	255.0	234.0	201.0	132.7	15.0	15.5	15.9	16.4
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	4.0	4.0	236.0	4.0	208.2	4.1	4.2	4.4
1.1.4.1.1	CAMU Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	33.6	90.0	0.0	0.8	0.8	0.8	0.8	0.8	0.9
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	100.0	49.4	96.0	148.3	630.7	233.7
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	50.0	50.0	50.0	51.5	57.3	59.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	12.0	55.3	54.3	18.3	2.4	60.8	2.5
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	3.9	3.9	3.9	4.0	4.1	4.3
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
1.1.4.2.1	Site-Wide GW Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.1	0.0	0.0	0.0	1.3	82.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	2.8	9.3	0.0	0.0
1.1.X.XX	RMI Settlement Costs	1,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	G&A	1,452.7	1,300.0	1,300.0	1,200.0	1,200.0	1,200.0	1,236.0	1,273.1	1,311.3
	Management Reserve	350.0	199.7	250.0	395.1	300.0	360.0	350.2	522.6	335.9
	Project Contingency	0.0	254.6	263.3	470.0	354.0	448.3	448.7	594.1	386.3
	Fee	889.9	741.5	786.0	833.2	883.2	936.2	964.3	993.2	1,023.0
	S/C Tech. Suppt.	1,712.0	816.0	865.0	917.0	972.0	1,030.0	1,060.9	1,092.7	1,125.5
	RMIDP M&S/LABOR/SUBCONT. TOTALS	17,925.8	11,660.0	12,360.0	13,102.0	13,888.0	14,721.0	15,162.6	15,617.5	16,086.0

RMIDP Labor/M&S/Fid&SC - ESCALATED (\$ IN THOUSANDS)

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1.1	Project Control	639.3	658.5	678.2	698.6	719.5	404.5	145.4	0.0	0.0
1.1.1.1.2	Technical Support	74.6	76.9	79.2	81.5	84.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	199.4	205.4	211.6	217.9	224.5	118.2	121.8	0.0	0.0
1.1.1.1.4	Administration and Training	1,339.7	1,379.9	1,421.3	1,463.9	1,507.8	913.3	470.4	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	917.9	945.4	889.0	940.2	968.4	795.9	698.0	0.0	0.0
1.1.1.2.2	Equipment Procurement	1,209.9	1,195.2	735.5	953.2	633.4	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	461.5	475.3	489.6	504.2	519.4	195.7	143.3	0.0	0.0
1.1.1.2.4	Safeguards and Security	297.4	306.3	315.5	324.9	334.7	224.4	205.4	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	66.5	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	14.1	14.5	188.7	194.3	269.2	0.0	16.8	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	1,477.6	58.0	95.5	1,044.2	2,707.1	147.4	1,021.4	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	1,732.4	878.7	59.7	369.0	1,926.8	809.6	775.3	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	129.4	17.4	125.4	129.1	145.7	0.0	6.7	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	22.5	23.2	277.0	484.6	12.7	0.0	40.3	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	23.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	545.1	107.5	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	400.8	134.4	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	91.3	13.4	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	198.4	0.0	13.4	0.0	0.0
1.1.3.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	30.1	123.7	8.0	8.2	8.5	8.7	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	649.4	1,977.7	2,049.0	1,868.5	1,437.8	1,359.3	1,877.5	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	1,558.8	3,147.4	4,864.6	3,390.9	63.3	481.5	94.1	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	61.9	179.7	161.2	104.5	69.7	71.8	63.2	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	222.6	128.7	11.9	12.3	12.7	852.0	22.8	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	4.5	241.1	4.8	4.9	5.1	5.2	548.9	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	53.8	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.9	0.9	1.0	1.0	1.0	32.6	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	1,077.0	614.3	137.2	141.3	145.6	223.1	95.4	98.3	101.2
1.1.4.1.4	CAMU Waste Management	30.8	31.8	32.7	33.7	34.7	156.6	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	2.6	2.7	2.7	2.8	2.9	6.5	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	4.4	4.5	4.7	4.8	4.9	6.5	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.1	0.1	0.1	0.1	0.1	2.6	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.X.XX	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G&A		1,350.6	1,391.1	1,432.9	1,475.8	1,520.1	1,304.8	940.7	0.0	0.0
Management Reserve		362.3	479.6	565.0	369.0	380.0	391.4	403.2	4.4	4.6
Project Contingency		484.0	544.9	656.7	491.9	443.4	456.7	470.4	6.9	7.1
Fee		1,053.7	1,108.5	1,141.8	1,128.5	1,055.6	739.3	625.1	8.0	8.3
S/C Tech. Suppt.		1,159.3	854.4	880.0	906.4	933.6	961.6	777.5	0.0	0.0
RMIDP M&S/LABOR/SUBCONT. TOTALS		16,568.6	17,065.7	17,577.7	17,409.6	16,370.5	11,773.3	9,919.5	117.7	121.2

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,309.3
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,827.3
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,477.0
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,033.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	421.6
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,638.3
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,955.2
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,644.4
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,020.2
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,788.5
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,296.3
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,597.9
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,266.2
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,883.1
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,574.7
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,080.4
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	659.5
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	153.8
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.9
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	814.6
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	652.6
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	535.2
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	104.8
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	211.8
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	789.4
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,899.1
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,715.0
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,066.1
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,762.5
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	847.2
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	219.5
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,018.9
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,823.2
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	265.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	886.7
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	475.7
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	17.5	183.5
1.1.4.1.3	CAMU GW Remediation Ops	104.3	107.4	110.6	113.9	117.4	120.9	519.7	5,085.7
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	56.2	2,653.6	3,347.9
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.8
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	401.9	455.8
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	19.3	23.1
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.4
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1
1.1.X.X.X	RMI Settlement Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.0
	G&A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,889.1
	Management Reserve	4.7	4.8	5.0	5.1	5.3	92.4	350.7	6,491.0
	Project Contingency	7.3	7.6	7.8	8.0	8.3	119.2	438.4	7,377.7
	Fee	8.5	8.8	9.1	9.3	9.6	28.5	323.0	15,316.4
	S/C Tech. Suppt.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,063.9
	RMIDP M&S/LABOR/SUBCONT. TOTALS	124.8	128.6	132.4	136.4	140.5	417.1	4,724.2	243,250.9

RMI Labor – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

WBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1	Project Control	543.1	677.1	522.0	538.0	538.0	538.0	554.1	570.8	587.9
1.1.1.1.2	Technical Support	45.8	43.3	43.3	43.3	43.3	43.3	44.6	45.9	47.3
1.1.1.1.3	Quality Assurance	334.8	371.5	284.9	153.2	153.2	153.2	157.8	162.5	167.4
1.1.1.1.4	Administration and Training	1,010.9	879.6	879.6	574.2	574.2	574.2	591.4	609.2	627.4
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	993.4	487.0	405.0	314.5	314.5	314.5	323.9	333.7	343.7
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	503.2	220.0	200.6	191.2	191.2	191.2	196.9	202.8	208.9
1.1.2.1	Site Preparations	211.6	109.0	0.0	146.6	146.6	146.6	151.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	60.0	0.0	50.0	47.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	242.2	350.0	371.0	385.0	150.0	400.0	185.4	180.4	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	584.8	600.0	500.0	450.0	350.0	500.0	463.5	424.4	466.6
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	300.0	600.0	300.0	350.0	300.0	515.0	265.2	601.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	141.9	220.0	200.0	150.0	100.0	160.0	206.0	106.1	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	200.0	200.0	0.0	0.0	0.0	102.4	95.5	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	360.5	84.9	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	103.0	159.1	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	30.9	21.2	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.3	5.5
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	15.1	0.0	250.0	0.0	0.0	0.0	10.3	106.1	54.6
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.1	382.5
1.1.3.1.5	On-Site Soil Waste Management	569.2	70.0	100.0	100.0	180.0	0.0	0.0	0.0	546.4
1.1.3.1.6	On-Site Soil ES&H	63.8	10.0	50.0	50.4	20.0	0.0	5.2	31.8	76.5
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	80.0	0.0	0.0	5.2	106.1	43.7
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	50.0	30.0	50.0	30.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.9	0.0	0.0	50.0	60.0	100.6	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	100.0	500.0	60.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	15.0	10.0	60.0	80.0	100.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.5	40.0	20.0	60.0	30.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	60.0	0.0	45.0	0.0	0.0	0.0
1.1.4.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	30.1	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	10.0	9.4	56.0	10.3	87.6	76.5
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	10.0	6.0	6.0	0.0	6.4	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.1	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.0	0.0
DP M&S TOTALS (in Thousand)		5,291.4	4,672.5	4,726.4	3,876.4	3,876.4	3,826.4	4,023.6	4,133.7	4,235.8

RMI Labor – ESCALATED (\$ IN THOUSANDS)
26-Apr-94

WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Control	605.5	623.7	642.4	661.7	681.5	391.4	132.0	0.0	0.0
1.1.1.1.2	Technical Support	48.7	50.2	51.7	53.3	54.9	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	172.4	177.6	182.9	188.4	194.1	86.9	89.5	0.0	0.0
1.1.1.1.4	Administration and Training	646.3	665.7	685.6	706.2	727.4	391.4	336.0	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	354.0	364.6	375.5	386.8	398.4	195.7	189.5	0.0	0.0
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	215.2	221.7	228.3	235.2	242.2	129.2	107.2	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	179.1	184.5	253.4	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	610.9	0.0	0.0	553.4	886.7	26.1	537.6	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	753.2	0.0	0.0	307.5	570.0	65.2	520.0	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	112.6	0.0	119.4	123.0	126.7	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	83.6	86.1	0.0	0.0	0.0	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	104.4	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	234.9	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	91.3	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	50.7	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	22.5	115.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	225.1	811.5	716.4	553.4	646.1	260.7	537.6	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	450.2	1,101.3	1,194.1	614.9	0.0	78.3	0.0	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	56.3	173.9	155.2	98.4	63.3	65.2	53.8	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	33.8	58.0	0.0	0.0	0.0	104.4	0.0	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	115.9	0.0	0.0	0.0	0.0	67.2	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	56.3	13.9	14.3	14.8	15.2	15.7	16.1	16.6	17.1
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NDP M&S TOTALS (in Thousand)		4,362.9	4,493.8	4,628.6	4,767.5	4,910.5	2,253.9	2,586.4	16.6	17.1

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WBS No.	Title	FY 2012	FY 2013	FY 2014	FY 2015	7.00	FY 2017	FY 2018	Totals
1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,807.2
1.1.1.1	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	658.9
1.1.1.1.1	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,030.4
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,479.3
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,094.6
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,485.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	924.4
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	157.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,880.9
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,954.0
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,447.1
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,765.6
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	767.5
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	445.4
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	262.1
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.1
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.7
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	104.4
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	234.9
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.3
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.7
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	574.6
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,292.4
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,004.4
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	973.8
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	431.1
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	183.1
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	211.5
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	660.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	265.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.5
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	17.5	77.6
1.1.4.1.3	CAMU GW Remediation Ops	17.6	18.2	18.7	19.3	19.8	20.4	52.6	596.4
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	8.5	350.7	359.2
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	36.8	36.8
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
DP M&S TOTALS in Thousand)		17.6	18.2	18.7	19.3	19.8	28.9	461.2	67,283.6

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VBS No.	Title	FY 1994	FY 1995	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1.1	Project Control	37.9	30.0	30.0	30.0	30.0	30.0	30.9	31.8	32.8
1.1.1.1.2	Technical Support	23.3	23.0	23.0	23.0	23.0	23.0	23.7	24.4	25.1
1.1.1.1.3	Quality Assurance	43.2	24.0	24.0	24.0	24.0	24.0	24.7	25.5	26.2
1.1.1.1.4	Administration and Training	937.5	516.1	516.1	516.1	516.1	516.1	531.6	547.5	564.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	573.3	151.0	151.0	151.0	151.0	151.0	155.5	160.2	165.0
1.1.1.2.2	Equipment Procurement	0.0	126.0	124.0	330.0	330.0	564.0	6.3	981.3	1,076.3
1.1.1.2.3	Utilities and Miscellaneous	429.3	420.0	420.0	420.0	420.0	420.0	432	445.6	448.0
1.1.1.2.4	Safeguards and Security	308.2	73.0	73.0	73.0	73.0	73.0	75	77.4	79.8
1.1.2.1	Site Preparations	75.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	116.3	12.5	12.5	12.5	12.5	12.5	12.9	13.3	13.7
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	343.4	80.0	80.0	80.0	80.0	80.0	82.4	84.9	87.4
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	50.0	50.0	50.0	50.0	50.0	51.5	53.0	54.6
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	4.5	5.0	5.0	5.0	5.0	5.0	5.2	5.3	5.5
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	20.0	20.0	20.0	20.0	20.0	20.6	21.2	21.9
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	152.1	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.9
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	40.0	40.0	40.0	40.0	40.0	41.2	42.4	43.7
1.1.3.1.5	On-Site Soil Waste Management	18.1	50.0	50.0	50.0	50.0	50.0	51.5	53.0	54.6
1.1.3.1.6	On-Site Soil ES&H	5.6	5.0	5.0	5.0	5.0	5.0	5.2	5.3	5.5
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	10.0	10.0	10.0	10.0	10.0	10.3	10.6	10.9
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	4.0	4.0	4.0	4.0	4.0	4.1	4.2	4.4
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	59.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.6	40.0	40.0	13.7	13.7	13.7	14.1	14.5	15.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	20.0	20.0	19.6	19.8	19.6	20.2	20.8	21.4
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.7	15.0	15.0	15.0	15.0	15.0	15.5	15.9	16.4
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	4.0	4.0	4.0	4.0	4.0	4.1	4.2	4.4
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	3.5	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.9
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	40.0	40.0	40.0	41.2	46.6	48.0
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	50.0	50.0	50.0	51.5	57.3	59.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	2.3	2.3	2.3	2.4	2.4	2.5
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	3.9	3.9	3.9	4.0	4.1	4.3
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS (\$'s in Thousand)		3,132.7	1,720.3	1,718.3	1,994.7	1,996.2	2,228.7	2,410.9	2,755.8	2,893.1

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WBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1.1	Project Control	33.8	34.8	35.8	36.9	38.0	13.0	13.4	0.0	0.0
1.1.1.1.2	Technical Support	25.9	26.7	27.5	28.3	29.1	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	27.0	27.8	28.7	29.5	30.4	31.3	32.3	0.0	0.0
1.1.1.1.4	Administration and Training	580.9	598.3	616.3	634.7	653.8	439.1	134.4	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	170.0	175.1	95.5	123.0	126.7	78.3	76.3	0.0	0.0
1.1.1.2.2	Equipment Procurement	1,209.9	1,195.2	735.5	953.2	633.4	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	461.5	475.3	489.6	504.2	519.4	195.7	143.3	0.0	0.0
1.1.1.2.4	Safeguards and Security	82.2	84.6	87.2	89.8	92.5	95.2	98.1	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	14.1	14.5	9.6	9.8	15.8	0.0	16.8	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	56.3	58.0	95.5	98.4	63.3	0.0	483.8	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	56.3	58.0	59.7	61.5	50.7	0.0	255.3	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	16.9	17.4	6.0	6.1	19.0	0.0	6.7	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	22.5	23.2	17.9	18.4	12.7	0.0	40.3	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	23.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	107.5	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	134.4	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	7.5	7.8	8.0	8.2	8.5	8.7	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	45.0	46.4	47.8	49.2	50.7	52.2	107.5	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	56.3	58.0	59.7	61.5	63.3	65.2	94.1	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	5.6	5.8	6.0	6.1	6.3	6.5	9.4	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	11.3	11.6	11.9	12.3	12.7	13.0	22.8	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	4.5	4.6	4.8	4.9	5.1	5.2	2.7	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	53.8	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.9	0.9	1.0	1.0	1.0	32.6	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	49.4	50.9	52.4	54.0	55.6	130.5	0.0	0.0	0.0
1.1.4.1.4	CAMU Waste Management	30.8	31.8	32.7	33.7	34.7	156.6	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	2.6	2.7	2.7	2.8	2.9	6.5	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	4.4	4.5	4.7	4.8	4.9	6.5	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.1	0.1	0.1	0.1	0.1	2.6	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS (\$'s in Thousand)		2,975.5	3,013.8	2,593.7	2,891.7	2,530.6	1,339.0	1,893.4	0.0	0.0

RMIDP Field or S/C Work -- ESCALATED (\$ IN THOUSANDS)

26-Apr-94

YBS No.	Title	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1.1.1.1	Project Control	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.2	Technical Support	1,819.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	236.5	100.0	100.0	100.0	100.0	100.0	103.0	106.1	109.3
1.1.1.1.5	Technology Development	421.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	0.0	340.0	340.0	350.0	350.0	350.0	360.5	371.3	382.5
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	180.0	17.0	0.0	135.0	147.0	130.0	125.9	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	116.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	163.0	1,145.0	1,587.0	1,627.0	1,175.0	354.3	675.8	982.4
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	93.0	118.0	282.0	691.0	1,341.0	2,114.6	187.8	247.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	561.0	156.0	0.0	0.0	0.0	127.7	108.2	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	515.0	96.1	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	186.4	199.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	64.2	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	456.2	22.4
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	28.7	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	827.1	983.9
1.1.3.1.5	On-Site Soil Waste Management	744.0	371.4	381.0	208.6	654.0	0.0	0.0	0.0	1,762.6
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	50.0	0.0	264.0	0.0	0.0	73.1	619.6	175.9
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	98.0	246.2	271.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	357.3	1,017.0	573.7	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	200.0	199.0	126.0	87.7	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	172.0	0.0	159.2	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	0.0	0.0	0.0	50.0	0.0	0.0	96.8	496.5	109.3
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	12.0	43.0	46.0	10.0	0.0	52.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	72.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	2.0	8.2	0.0	0.0
IDP M&S TOTALS (in Thousand)		3,597.1	1,955.4	2,451.0	3,415.6	4,306.2	4,691.4	4,668.1	4,252.3	4,775.1

RMIDP Field or S/C Work – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

VBS No.	Title	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	112.6	115.9	119.4	123.0	126.7	82.9	0.0	0.0	0.0
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.1	Surveillance and Maintenance	393.9	405.7	417.9	430.5	443.4	521.9	432.2	0.0	0.0
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	53.5	0.0	0.0	0.0
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	810.4	0.0	0.0	392.3	1,757.0	121.3	0.0	0.0	0.0
1.1.2.2.4	Bldg Gr. A Waste Management	922.9	820.8	0.0	0.0	1,306.0	744.4	0.0	0.0	0.0
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	175.5	380.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	440.8	0.0	0.0	0.0
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	166.0	0.0	0.0	0.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	147.7	0.0	0.0	0.0	0.0
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	379.3	1,119.9	1,284.8	1,265.9	741.1	1,046.4	1,232.4	0.0	0.0
1.1.3.1.5	On-Site Soil Waste Management	1,052.4	1,988.2	3,610.8	2,714.5	0.0	337.9	0.0	0.0	0.0
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	177.6	59.1	0.0	0.0	0.0	734.6	0.0	0.0	0.0
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	120.6	0.0	0.0	0.0	0.0	479.0	0.0	0.0
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.3	CAMU GW Remediation Ops	971.3	549.5	70.4	72.6	74.7	77.0	79.3	81.7	84.1
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RMIDP M&S TOTALS (in Thousand)		4,820.3	5,179.6	5,678.9	5,378.7	4,596.6	4,326.6	2,222.8	81.7	84.1

RMIDP Field or S/C Work – ESCALATED (\$ IN THOUSANDS)

26-Apr-94

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WBS No.	Title	FY 2011	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Totals
1.1.1.1	Project Control	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
1.1.1.1.2	Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,819.5
1.1.1.1.3	Quality Assurance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.1.4	Administration and Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,735.3
1.1.1.1.5	Technology Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	421.6
1.1.1.2.1	Surveillance and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,889.8
1.1.1.2.2	Equipment Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.3	Utilities and Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.1.2.4	Safeguards and Security	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.1	Site Preparations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	788.4
1.1.2.2.1	Bldg Gr. A Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
1.1.2.2.2	Bldg Gr. A Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.2
1.1.2.2.3	Bldg Gr. A Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,790.5
1.1.2.2.4	Bldg Gr. A Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,868.4
1.1.2.2.5	Bldg Gr. A Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.2.6	Bldg Gr. A Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,508.5
1.1.2.3.1	Bldg Gr. B Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.2.3.2	Bldg Gr. B Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.3	Bldg Gr. B Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	611.1
1.1.2.3.4	Bldg Gr. B Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	385.5
1.1.2.3.5	Bldg Gr. B Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.3.6	Bldg Gr. B Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.2
1.1.2.4.1	Bldg Gr. C Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
1.1.2.4.2	Bldg Gr. C Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.3	Bldg Gr. C Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7
1.1.2.4.4	Bldg Gr. C Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	478.6
1.1.2.4.5	Bldg Gr. C Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.4.6	Bldg Gr. C Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7
1.1.2.5.1	Bldg Gr. D Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
1.1.2.5.2	Bldg Gr. D Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.3	Bldg Gr. D Bldg Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	440.8
1.1.2.5.4	Bldg Gr. D Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	166.0
1.1.2.5.5	Bldg Gr. D Env. Safety and Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.2.5.6	Bldg Gr. D Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.7
1.1.3.1.1	On-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.3.1.2	On-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.3	On-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.4	On-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,880.7
1.1.3.1.5	On-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,825.3
1.1.3.1.6	On-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.1.7	On-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,153.9
1.1.3.1.8	On-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	599.5
1.1.3.2.1	Off-Site Soil Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.3.2.2	Off-Site Soil Pathway Analysis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.3	Off-Site Soil Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.4	Off-Site Soil Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	615.2
1.1.3.2.5	Off-Site Soil Waste Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,948.0
1.1.3.2.6	Off-Site Soil ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.3.2.7	Off-Site Soil Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	612.7
1.1.3.2.8	Off-Site Soil Indep. Verification	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.2
1.1.4.1.1	CAMU Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.4.1.2	CAMU Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0
1.1.4.1.3	CAMU GW Remediation Ops	86.6	89.2	91.9	94.7	97.5	100.4	467.1	3,840.8
1.1.4.1.4	CAMU Waste Management	0.0	0.0	0.0	0.0	0.0	47.7	2,302.9	2,350.5
1.1.4.1.5	CAMU Env. Safety & Health	0.0	0.0	0.0	0.0	0.0	0.0	0.0	163.0
1.1.4.1.6	CAMU Laboratory Services	0.0	0.0	0.0	0.0	0.0	0.0	365.1	365.1
1.1.4.1.7	CAMU Independent Verification	0.0	0.0	0.0	0.0	0.0	0.0	15.8	15.8
1.1.4.2.1	Site-Wide GW Technical Support	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
1.1.4.2.2	Site-Wide GW Characterization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0
1.1.4.2.3	Site-Wide GW Remediation Ops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.4	Site-Wide GW Waste Mgt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.5	Site-Wide GW ES&H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.6	Site-Wide GW Lab Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1.4.2.7	Site-Wide GW Indep. Verif.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
RMIDP M&S TOTALS (in Thousand)		86.6	89.2	91.9	94.7	97.5	148.1	3,150.9	70,240.6

ESTIMATE ASSUMPTIONS AND BASIS

RMI ENVIRONMENTAL SERVICES

RE: RMI Decommissioning Project

26-APR-94

By: C. Kinney

ESTIMATE BASIS DOCUMENT

Page 1 of 10

A. PROJECT TYPE, SCOPE, AND OBJECTIVE:

This is a conceptual level estimate of costs developed for the purposes of establishing a new baseline budget driven by the DOE spending profile for remediation efforts at the RMI Extrusion Plant located in Ashtabula Ohio.

The scope of this estimate is to provide Decontamination and Decommissioning (D&D) efforts primarily associated with demolition, removal, containerization, & disposal (by burial at an off-site location) of all radiologically contaminated facility equipment, buildings, on-site soils, and off-site soils. This scope of work includes removal and unrestricted free-release of all DOE allowed releasable equipment, and includes the management and production support staffing and facilities necessary to accomplish the D&D activities.

This estimate is defined as a conceptual estimate as it is based on 10% design development. This estimate is representative of the estimated costs within a level of accuracy of plus or minus twenty percent.

B. ESTIMATE HISTORY

- The Final Draft Decommissioning Plan was issued 30-DEC-92 with a Total Project Cost (TPC) of \$136,100,000.
- Task Force Recommendations were issued in the Meeting RMI Decommissioning Analytical Requirements report on 23-JUL-93 with a cost estimate of approximately \$200,000,000.
- The preliminary D&D Conceptual Design Report (CDR) estimate was issued on 26-JUL-93. This estimate contained the physical D&D effort, quantifications, and labor cost estimates based upon the initial briefing of the Task Force and the Final Draft Decommissioning Plan dated 30-DEC-91. This estimate was the first issue prepared by Parsons for the Independent Cost Review (ICR) by Mactec and Dames & Moore, but did not include indirect costs for scope, quantity, and labor cost reviews only. This issue was not submitted to DOE for approval.
- Initial official issue D&D CDR estimate was issued on 16-AUG-93 for \$221,422,850. This estimate contained the above preliminary estimate of 26-JUL-93 and also included indirects. Originally this estimate was to be issued to DOE for review, but was issued instead to RMI for review. This estimate did not contain RMI or ICR comments.
- Revision 0 of the Cost Estimate D&D CDR Estimate was issued on 15-SEP-93 for \$230,893,659. This estimate was based on the initial estimate of 16-AUG-93 and included both the ICR and RMI comments/resolutions, and was sent to DOE for baseline approval.
- This 14-FEB-94 estimate is based on a funding profile consistent with the current five year plan.

C. ESTIMATING SOURCE DOCUMENTS:

- ESTIMATING STANDARDS: This estimate was prepared in accordance with the RMI ESTIMATING GUIDELINES, DOE Order 4700.1, and "supplemental issue" documents listed below.

C. ESTIMATING SOURCE DOCUMENTS (Continued):

- PROJECT SPECIFIC source documents were utilized in assembling this estimate. The source documents utilized are listed below in the order of priority used in resolving conflicting statements or missing information between the source documents.
 - 1) Project Control control account and work plans for FY94 and FY95.
 - 2) Estimate from the RMI Decommissioning Project Remediation Plan (5 volumes) dated 15-SEP-93.
 - 3) The Activity Specifications as issued with this estimate package.
 - 4) Task Force Recommendations for Meeting RMI Decommissioning Analytical Requirements dated 23-JUL-93.
 - 5) Final Draft Decommissioning Plan dated 30-DEC-92.

D. WORK BREAKDOWN STRUCTURE (WBS):

The estimate is developed consistent with the project WBS format dated 15-SEP-93 for the purposes of categorizing, sorting, and sequencing the estimated elements of cost.

E. WORKFORCE RESOURCES:

The Workforce Resources utilized in this estimate are as directed by the Program and Project Managers. The project and construction management is currently provided by RMI staff. The detailed design engineering necessary to perform the D&D effort will be provided under separate contract to DOE by Parsons Environmental Services, Inc (PESI). The physical aspects of the D&D work will be performed utilizing an optimized mix of RMI and subcontractor forces. RMI will provide all construction temporary facilities, construction equipment, utility costs, and burial containers. RMI will also provide full characterization, environmental safety & health, and quality assurance staffing.

F. ENGINEERING/DESIGN

Engineering & design costs have been included in this estimate as determined in a separate task analysis by PESI. Refer to Attachment K: Design/Engineering for a breakdown of costs by WBS.

G. MATERIAL QUANTIFICATION, PRICING BASIS, & SOURCE CODES:

- CONSTRUCTION QUANTITY TAKE-OFFS were performed by Ecotek in 1991, reviewed by Parsons in 1993, and verified to be consistent with the requirements for a CDR by RMI staff in 1993. Certain quantity adjustments were made subsequent to this Ecotek report based on technical assumption changes and better data concerning site conditions.

H. UNIT OF MEASURE CODES:

The following Unit of Measure Codes are utilized in the estimate. The Unit of measure Codes are the acronyms as follows:

<u>CODE</u>	<u>DESCRIPTION</u>
CF	Cubic Feet
CY	Cubic Yard
EA	Each
LB	Pounds
LF	Lineal Feet
MH	Man-hours
SF	Square Feet
SY	Square Yards
TN	Tons

I. LABOR RATES:

Construction labor craft rates are based on Davis-Bacon Wage Rates (80%) as determined by General Wage Decision Number OH930029, published by the Dept of Labor and typical RMI union labor rates (20%). The Davis Bacon rates are identified and stated in Attachment "B": RMI Average D&D Wage Rate as attached to this document. They do not include classification mixes for General Foremen, Foremen, Journeymen, and Apprentices which are applied separately under CRAFT SUPERVISION. The fringes include labor burden additives for Health & Welfare and Pension, FICA, FUI, SUI, and Public Liability Insurance. Refer to RMI Average Wage Rates as shown in Attachment "B".

J. CREW MIXES:

All labor wage rates in this estimate utilize crew mixes where applicable. A standard demolition crew was developed by PESI for this estimate and was used for all D&D activities.

K. MANHOUR STANDARD & ADJUSTED UNIT RATES:

- STANDARD (UNIT) FACTORS utilized in the development of labor productivity factors are based strictly on estimating standards of the industry or are based on the estimator's best judgement when industry standards are unavailable.

L. ESTIMATE MARKUPS:

SUBCONTRACTOR WORKFORCE MARKUPS for work performed by subcontracted field labor are as follows:

- **RADIOLOGICAL CONDITIONS FACTOR (RZ factor)** has been included for all D&D activities as a "project-specific" productivity factor adjustment. The RZ factor for this effort is assumed to be 10%, a standard of the industry for work to be performed in radiological conditions with specific protective clothing consisting of tyvek suits with boot covers and gloves resulting in an efficiency loss in labor productivity plus additional factors as identified in the RADIOLOGICAL CONDITIONS FACTOR WORKSHEET as shown in Attachment "L".
- **HEALTH PHYSICS/SAFETY/TRAINING (HP/S/T)** has been included for all D&D activities as a "project-specific" labor productivity factor adjustment. The HP/S/T cost estimate has been developed in a separate worksheet as noted in Attachment "C": HEALTH PHYSICS/SAFETY/TRAINING. The calculated factor is applied as a factor of labor costs and manhours.

L. ESTIMATE MARKUPS (Continued):

- JOB CONDITIONS FACTORS (JCF) have been included for all D&D activities as a "project-specific" labor productivity factor adjustment for such elements as material handling, congestion, etc. The Job Condition Factors have been developed for individual elements of each WBS and are included as attachments to the estimate detail in each WBS category at the rear of the estimate detail sheets in the estimate. The Job Conditions Factor is applied as a factor of labor costs and manhours.
- CRAFT SUPERVISION is a "project-specific" adjustment for estimated costs and is included as a separated factor of the total labor. The total Craft Supervision factor utilized is 15% applied to worker labor dollars for 1.3 working foremen and 0.2 general foremen for every 10 workers. The actual historical costs are not known and are only estimated within the parameters of a conceptual estimate at this time. A task analysis for Field Supervision will be developed for future estimates when historical information becomes available. The Craft Supervision factor is applied as a factor to the labor costs and manhours. Craft Supervision should have no impact on activity duration in the project schedule.
- CONSTRUCTION EQUIPMENT is also a "project-specific" adjustment for costs associated with the purchase of construction equipment by RMI. Activities include costs associated with the following: receiving equipment on-site, equipment checkout, maintenance & repair of equipment, fuel, and salvage value. The construction equipment costs have been calculated separately (refer to Attachment "D": CONSTRUCTION EQUIPMENT) and apportioned back to each applicable WBS element of cost. Ninety-three percent of the construction equipment cost is estimated to be rental or purchase costs, including fuel, repairs, parts, etc, and is applied as a factor of the labor costs. The remaining seven percent is estimated for the labor effort and is applied as an adder to labor costs.
- CONSTRUCTION SUPPORT COSTS have been included for all D&D activities as a "project-specific" adder for small tools, scaffold, etc. The Construction Support Costs have been developed for individual elements of each WBS and are included as attachments to the estimate detail in each WBS category at the rear of the estimate detail sheets in the estimate. The Construction Support Costs are applied as a factor of total labor costs with the result impacting only labor costs.

Construction Support Costs include costs for protective clothing allowance as calculated and as shown in Attachment "E": TYVEK SUITS FOR LEVEL "C" AND "D" CONDITIONS.

Construction Support Costs also include:

- 1) craft (labor) support costs consisting of the rental and erection efforts associated with general and specific use scaffolding. Higher levels of labor costs include activities for periodic (daily, weekly, monthly) and final building cleanup, weekly and monthly cleanup of the specific site areas and full periodic cleanup of the entire site. Also included are the additional craft assistance requirements for activities related to layout work, lockout/tagout activities, costs incurred for HP delays/controlled access requirements, and labor costs for one-on-one type craft support of certain tasks such as security escorts in RWP areas, respirator dress-out activities and standby craft in all respirator zones, fire watch for all hot welding & cutting activities, and the confined space entry additional support craft.

L. ESTIMATE MARKUPS (Continued):

- 2) combined labor and material costs for temporary construction such as temporary shoring and bracing necessary to support the existing building structures while the buildings are demolished by hand, construction field office set up and erection of associated structures, all other temporary weather and safety barricades/structures/protection, including erecting, connecting, & disconnecting temporary construction lighting and utilities in both temporary and existing structures.
- 3) Construction Support Costs are impacted additionally by costs for craft supervision, labor fringes, and payroll taxes.
- 4) material costs for scaffold purchase/rentals, small tools purchase and maintenance (costing less than \$500). Also included are rental costs for portable toilets, construction trash dumpsters, dumpster haul and dump, miscellaneous consumables, drinking water supplies, local construction permits and fees, construction signage, contractor first aid and safety equipment, temporary security devices and locks, construction bulletin boards, and construction dewatering equipment rentals/purchase. Additional costs include the material costs for Level D radiological work conditions which require the use of Tyvek Suits, hoods, boot covers, and gloves. Note: the material costs for Level C radiological work conditions also include all costs for Level D as noted above plus additional equipment for respirator face masks and cartridges.

The majority of the Construction Support Costs are labor related and are labor intense since this is primarily a demolition project. The material costs in this demolition project are the same as most demolition projects in the sense that traditionally the material costs associated with demolition projects are insignificant when compared to the labor costs.

- LABOR FRINGES/PAYROLL TAXES are included as noted in Attachment "B": RMI Average D&D Wage Rate. The Labor Fringes & Payroll Taxes are applied as a factor to the total labor costs only and do not impact manhours.
- OHIO STATE SALES TAX of six percent is applied as directed by Ohio state law to all estimated material and construction equipment direct costs that are applicable to this project, regardless of the supply source. Sales tax in Ohio is not a gross receipts tax and is not applied to other labor or contractor markups.
- SUBTIER SUBCONTRACTOR OH/PROFIT is not included as it is assumed all previously subcontracted D&D work in the field will be performed by RMI, eliminating costs associated with subtier markups.
- SUBCONTRACTOR ADMIN. OF LOWER TIER SUBCONTRACTORS is not included as it is assumed that the majority of D&D work in the field will be performed by RMI. However, a five percent factor has been applied against field work activities to cover RMI's additional administration costs for added RMI personnel who will assist in remediating this facility.

L. ESTIMATE MARKUPS (Continued):

- DETAILED ENGINEERING is included as a factor against total cost elements as identified within each remediation WBS. Detail Field Support Engineering will be performed on site where RMI supervision and labor forces who are more familiar with the facilities can assist the design effort. It is assumed the familiarity of the facilities will result in a reduction of costs and a factor of four percent was applied for engineering in lieu of the six percent used in the previous estimate.
- ALL RISK INSURANCE is generally provided by the prime contractor to insure resources against fire and other perils against potential damage to the structures, facilities, and equipment (whether temporary or permanent). All Risk Insurance has been included as a markup at the standard 0.4% and is applied to estimated field labor costs.
- PERFORMANCE AND PAYMENT BOND is provided as required by either the prime contractor or subcontractors to ensure the performance of subcontractors and to protect against subcontractors who don't pay their bills for costs associated with this project. The Performance & Payment Bond is not included since it is assumed that all RMI will perform the work.

M. SCHEDULE AND ESCALATION:

The schedule utilized for this estimate is driven solely by a specific funding (spending) profile consistent with the project's congressionally approved Five Year Plan.

DOE Guidance Index for FY95 determination of escalation indexing was used as a source for preparation of the escalation that is applicable to this estimate for all years up to 1998. The rate used for 1999 and outyears is as directed specifically for this project by DOE-RMIDPO. Refer to Attachment "F": COST ESTIMATE ESCALATION TABLE as is attached to this document.

Escalation is calculated and applied to each WBS element of the project estimate. The base year for all unescalated estimated costs (both labor and material) are based on '93 rates and are escalated from the '93 base for each WBS.

N. RECONCILIATION:

Refer to the Attachment "G": ESTIMATE RECONCILIATION as attached to this document for a reconciliation to previous estimates.

P. SPECIFIC EXCLUSIONS/QUALIFICATIONS & CONTINGENCY BASIS:

The following assumptions and exclusions were made in preparing this estimate:

Refer to the Activity Specifications for additional information.

1. Only enough preliminary engineering has been completed to develop activity specifications. Engineered equipment specifications have not been developed. The design is considered to be 10% complete for this effort.

P. SPECIFIC EXCLUSIONS/QUALIFICATIONS (continued):

2. Only a small fraction of the characterization is complete. The absolute conditions and levels of contamination throughout the buildings, equipment, on-site soil, and beneath the underside of the building foundations are largely unknown at this time. However, operational history information and walk-over data exists for these areas and is used to substantiate the following two assumptions.

This estimate assumes burial of 100% of all building components to be (e.g. structural steel, piping, electrical, roofing, siding, doors, paneling, insulation, and masonry walls) disposed of as low level contaminated waste, except for the modular offices, guard house, and ES&H bldgs in Group "D". The guard house and ES&H bldgs will not be demolished, but will instead be cleaned and characterized. It is assumed that the modular office building will be found clean and can be free-released after being demolished.

This estimate assumes burial of only 80% of the volume of waste generated from the equipment to be D&D's, and free release for unrestricted use of the remaining 20%. It is further assumed that the "free release" equipment consists of equipment components that are "FOUND" in a clean condition not requiring additional costs or efforts for cleanup of radiological contaminants. Costs to perform decontamination tasks are not included in this estimate, however shipping and burial costs are included and should be used to offset portions of any decontamination costs that may be incurred.

Further contamination characterization and estimate analysis is recommended prior to establishing the finalized cost estimate for this effort.

3. Quantities are based on conceptual level takeoffs performed by Ecotek in 1991. The takeoff quantities are within the range of accuracy of plus or minus 30%. Waste volumes and weights of building components are based on published tables contained in the 1991 Decommissioning Plan (refer to the republished tables shown in the activity specifications). Actual conditions could vary.
4. Costs to erect and maintain contamination barriers separating RMI property from adjacent properties are not included in this estimate other than erosion control, nor are costs included to purchase adjacent properties, easements, or the overhead line in site Area "D".
5. Fields Brook efforts have been deleted from the project scope and estimate.
6. The extent of underslab contamination is uncertain as is the area of contamination around underground pipes and utilities. The estimate assumes contamination extends only 6" around underground pipes and utilities. This estimate assumes radiologically contaminated soil extends 9" under concrete slabs and foundations.

Uncontaminated concrete removed during building demolition will be rubbleized and used as deep fill as permitted by state and local regulatory authorities.

This estimate has not been reconciled against previous equipment lists except as contained in the Decommissioning Plan as noted above. It is assumed that the elements of cost were sufficiently identified in the Decommissioning Plan and no further quantities will be involved. It is further assumed that no dismantling of the equipment will be required or take place except as specifically necessary solely to accommodate the limitations of the shipping and burial containers.

P. SPECIFIC EXCLUSIONS/QUALIFICATIONS (Continued):

7. All contaminated waste materials will be containerized and transported to a DOE disposal facility via independent shipping lines using tractor trailers. This estimate assumes all contaminated waste will be sent to Nevada Test Site (NTS) which is located 2,100 miles from Ashtabula. It is assumed NTS will be open for the duration of this project (in excess of 25 years required to cover CAMU remediation) and it is assumed that NTS accept all contaminated wastes and wastes containing lead based paints. It is further assumed there will be no RCRA hazardous wastes or PCB's on or in equipment and materials to be removed. All known RCRA waste has been identified and characterized prior to the issuance of this estimate. It is assumed that galbestos and 76 drums of packaged asbestos waste are the only asbestos containing materials present. It is assumed that all asbestos materials are non-fryable and can be shipped as low level waste. It is assumed the lead based paints are non-leachable. It is assumed that no mixed wastes will be found other than that already identified by RMI.

Waste materials will be sized as appropriate to optimize waste packaging consistent with NTS-WAC. Volume reduction by compaction, smelting, or other means is not included in the estimate. Refer to Attachment "H": BURIAL BOX ESTIMATE for bulking factors applied to quantities for determining the numbers of containers for the burial wastes.

NTS Burial Fees are included in this estimate at the quoted rates. Purchase of NTS approved containers and freight to NTS are included in this estimate. It is assumed that the shipping containers will be the same containers used in waste burial. Although some wastes will have to be transferred from current containers to new containers prior to shipment, it is assumed that no transfer will be provided of contaminated wastes from the shipping containers to the burial containers. Burial costs at the Nevada Test Site were reduced from \$10.00 per cubic foot (used in all previously developed baselines) to \$8.41 per cubic foot as quoted by Nevada on January 20, 1994.

Sea/land containers are used for equipment and building disposal. B-25 containers will be used to containerize all contaminated soils and concrete. 55 gallon drums will contain mixed waste for shipment to Envirocare of Utah, Inc. by enclosed tractor trailer. It is assumed no other size of containers will be utilized. (The use of differing sized containers may impact cost and schedule.) Refer to Attachment "I": CONTAINER COSTS for the breakdown of container acquisition and shipping costs by volume.

8. The majority of the lab analysis costs will be performed by others at off-site labs for all sample analysis's. RMI is responsible to determine all sample locations, provide the sample containers, perform the actual taking of samples, package the samples for shipment, and send the samples via overnight express to the off-site lab. The costs to buy and mail the sample containers is included in the Materials and Services portions of the estimate. RMI is currently contracting with Ecotek LSI in Atlanta to perform the off-site lab analysis for characterization of all wastes. The unit prices used for lab services are itemized in this estimate and are based on actual fees per the current contract, exclusive of sample retrieval activities. It is assumed there will be 1.5 containers per sample to send to Ecotek. It is assumed there generally will be more than one analysis conducted on each sample.

It is assumed that no RCRA hazardous management units exist other than the current CAMU, therefore RCRA analysis has been included in the characterization, but per the assumption, no RCRA analysis will be performed in the final survey. Refer to Attachment "J": WASTE CHARACTERIZATION & LABORATORY SERVICES BACKUP.

P. SPECIFIC EXCLUSIONS/QUALIFICATIONS (Continued):

8. Lab Analysis (continued):

Costs for lab analysis of Site-Wide Groundwater (WBS 1.1.4.2) is included in the Environmental Monitoring (WBS 1.1.1.2) lab analysis fee.

Previous estimates associated with WBS 1.1.1.2 for the new lab upgrade and most lab equipment have been deleted from this estimate. It is assumed the existing modular lab will be available and can be used for all on-site lab efforts, but most analysis, both for radiological and RCRA, will be sent to Ecotek for off-site lab analysis.

Verification of fill material to be brought on site (imported from off-site) to replace the soils removed during the remediation activities is the responsibility of the borrow pit owner. However, the sampling costs and the costs for both initial and final analysis of the imported soils for verification of non-contaminated status are included in the estimate.

There is a potential for regulatory changes impacting cost and schedule by the time of construction with the possibility of stricter environmental monitoring.

9. Temporary construction for openings or building closures and temporary facilities such as RZ huts are included as detail line items in this estimate.
10. Premium costs for work performed on shift work or overtime is not included in this estimate.
11. This is a CDR level estimate and additional savings may be realized through the use of Value Engineering for all work prior to performing the actual work.
12. Refer to the attached Technical Bases and Assumptions document and the Activity Specifications, both as published with this estimate package. These documents form an integral part of this estimate and form the basis for all estimated costs associated with each WBS. The Technical Bases & Assumptions document and the Activity Specifications are included elsewhere in this issue of the Facility Remediation Plan.
13. Ohio State sales tax at 6% is included for all materials and supplies consumed by this project effort, whether furnished by RMI or it's subcontractors.
14. The schedule utilized for this estimate is driven solely by a specific funding (spending) profile as determined by DOE for this project effort. The funding basis will be consistent with the Five Year Plan submitted August 15, 1993. Funding requirements beyond the Five Year Plan will be consistent with the annual budget identified for fiscal year 1999.
- RMI will use current staffing levels as an annual cost baseline that focuses on site maintenance, regulatory parameters, and remediation activities during through "ramp up" years of the project (FY94 through FY96). Starting in fiscal year 1996, it is assumed that RMI staffing can be reduced as the project will be in an operations mode.
 - Annual Decommissioning Construction Activities level of accomplishment and intensity will be directly constrained by the DOE baseline funding directive.

It is assumed that the NRA, EPA, and all other regulatory agencies involved will concur with the planned schedule durations.

P. SPECIFIC EXCLUSIONS/QUALIFICATIONS (Continued):

15. RMI project fees are included in this estimate.
16. It is assumed that RMI personnel can complete the equipment and building D&D activities for this project using the same labor productivity factors as subcontracted effort.
17. Final survey requirements from the September 15, 1993 Baseline were re-evaluated. A reasonable approach based on NRC requirements and expectation that presently unaffected areas will remain so, and that initial characterization will result in free release by the NRC was reflected in the estimate. It is assumed that as a result, duplicate sampling and analysis will not be required in the same areas assumed to be free releasable.
 - The September 14, 1993 Baseline assumed these areas would require a full, final survey. Currently available characterization data indicates this will not be necessary and is not included in this estimate.
18. Beginning fiscal year 1995, project staff will be based on available project funding and the scheduled critical path to completion.
19. Upon completion of the estimate review cycle, several changes were directed at the estimate reflecting changes in assumptions.

The quantity for On-Site Soils Remediation (WBS 1.1.3.1) and the associated waste management activities were reduced by approximately fifteen percent. This reduction, is the result of a re-evaluation of the technical assumptions received from RMIDPO regarding the estimated amount of On-Site Soils remediation necessary to address the expected soils contamination in Area B. This reduction in quantity resulted in a one year reduction in the project's remediation schedule with the exception of CAMU and precipitated the following duration changes:

- The estimated costs of Project Management to include Administration & Training (WBS 1.1.1.1.4) was reduced by approximately three percent.
- The estimated costs of Site Services (WBS 1.1.1.2) was reduced by approximately eight percent.
- The estimated costs for CAMU Operations of the Groundwater Unit (WBS 1.1.4.1.3.2) was increased by approximately seven percent.
- Contingency and Management Reserve (Risk Analysis) was revised to reflect current project objectives. Based on the existing staffing, the Project has set contingency and management reserve at approximately eight percent of the total estimate less RMIDPO S/C Technical Support, Fee, General and Administrative Costs, Management Reserve and Contingency.

RMI ENVIRONMENTAL SERVICES
 RE: RMI Decommissioning Project
 RMI Average D&D Wage Rate (rev 1)

10-FEB-94

Labor Code	Craft Classifications	Base Rate	Crew %	Weighted Rate	Fringes Rate	Fully Burdened Rate
	Laborer	\$19.60	60%	\$11.76	\$7.90	\$4.74
	Foreman					
	Teamsters	\$15.73	5%	\$0.79	\$7.77	\$0.39
	Foreman					
	Operators	\$22.27	20%	\$4.45	\$9.51	\$1.90
	Foreman					
	Carpenters	\$20.65	5%	\$1.03	\$10.30	\$0.52
	Foreman					
	Sheetmetal Workers	\$22.08	3%	\$0.66	\$10.91	\$0.33
	Foreman					
	Electricians	\$20.73	5%	\$1.04	\$10.07	\$0.50
	Foreman					
	Pipefitters	\$22.03	2%	\$0.44	\$12.05	\$0.24
	Foreman					
			====	====		====
			100%	\$20.17	42.7%	\$8.62

Fringes include:
 Health & Welfare
 Pension
 Social Security
 Medicare
 SUI
 FUI
 Workman's Comp
 Public Liability

Fringe & Burden = 42.7%

(ATTACHMENT "B" to the Estimate Basis Document)

RMI ENVIRONMENTAL SERVICES

10-FEB-94

RE: RMI Decommissioning Project

Development of Worker HEALTH PHYSICS & SAFETY TRAINING Factor

BI-ANNUAL IMPACT:

Bi-annual productivity impact to worker as caused by annual training requirements.
Assumes the average worker will stay for two years.

FIRST YEAR:

General Site Training for 3 days @ 8 hrs =	24
Hazardous Waste Training =	20
On-Site Rad Worker Training & Respirator Fit =	80
Annual Medical Testing =	8

SECOND YEAR:

Annual Refresher Course =	8
Annual Refresher Training =	80
Annual Medical Testing =	8

Subtotal = 228

Allow 12% for worker turnover = 27

Allow 25% for peaking = 57

Impacted Manhours = 312

(divided by)

Biannual number of Manhours = 4,160

Total labor impact (Factor) = 7.5%

Construction of RCA enclosures/barricades are NOT included in these factors.

(ATTACHMENT "C" to the Estimate Basis Document)

7.25.7*

SITE PREPARATION - CONSTRUCTION EQUIPMENT

MONTHLY RENTAL

MONTHLY TOTAL

		MONTHLY RENTAL	MONTHLY TOTAL	
IR COMPRESSOR	1 EA.	2375*	2375	
F.E. LOADER	1 EA.	3520	3520	
BOBCAT W/ CAR UNIT	1 EA.	1555	1555	
SISSON LIFT	1 EA.	625	625	*
12 TON CRANE	1 EA.	3225	3225	
PAVER FLAT BED	1 EA.	300	300	
" 12-30 TON	1 EA.	2500	2500	
POLE TRUCK	1 EA.	3200	3200	*
(BY CEI - RENT)				
BACKHOE	1 EA.	4280	4280	*
FOK LITE	1 EA.	3050	3050	
TAMPERS	2 EA.	112	224	*
ROLLER	1 EA.	400	400	*
			<u>25754</u>	

START AUG. 94 TO APR 95 (4 mos) USE 5 mos. RENTAL
 BUILD. JAN. 95 - JUN. 99 1/2 EQUIPMENT ON SITE
 SOILS OCT. 93 " " AT ANYONE'S TIME -

$25754 \times 4 = 103016$ TOTAL

(ATTACHMENT "D" to the Estimate Basis Document)

* NOT RENTED DURING BUILDING EQUIPMENT PHASE AND UNIQUE TO SITE PREPARATION

0.093

EQUIPMENT RENTAL - JAN 95 TO JUN 99

		MONTH RENTAL	MONTH TOTAL
AIR COMPRESSOR	4 EA.	2375	9500
F.E. LOADER . 2 CY.	2 EA.	3520	7040
BOBCAT W/BUSHER	2 EA.	1555	3110
LOADALL W/BUSH	1 EA.	2700	2700
CRANE . 15 TON	3 EA.	3225	9675
" . 25 "	1 EA.	5200	5200
TRUCK . FLAT BED	3 EA.	300	900
" 12. 20 TON	3 EA.	2500	7500
WATER TRUCK	1 EA.	500	500
FORK LIFT	4 EA.	3050	12200
JLG'S	3 EA.	1800	5400
SCISSOR PLATF. LIFTS	4 EA.	625	2500
GENERATORS	4 EA.	675	2700
SWEEPER . GEM	1 EA.	1835	1835
PUMPS	LOT	1000	1000
HOSES, MISS. UNDER	-	-	-
SMALL TOOLS	-	-	-
			<u>73060</u>

PROJECT START . FINISH JAN. 95 TO JUN. 99

USE 4.5 GALS.

USE 1/2 OF EQUIPMENT ON SITE AT ANYONE TIME

USE 27 MONTHS.

73060 x 27 MOS. = 1,972,620 x 1.02% DEMOBILIZATION
AND 1.13% FOR FUEL, MAINTENANCE, TIRES, MISCL.
SPARE PARTS.

$$73060 \times 27 \times 1.02\% \times 1.13\% = 2,273,642$$

$$2,273,642 \times 1.40 = 3,183,100$$

USE 60%

SOILS ON/OFF SITE CONSTRUCTION EQUIPMENT

	NO RENTAL	NO READ	MONTHLY TOTAL
AIR COMPRESSOR 600CFM/125PSI	2375	x 1 =	2375
PUMPS 2"	325	x 3 =	975
CONC CORE DRILL	480	x 1 =	480
CRANE	6000	x 1 =	6000
5165 CONC SAW	980	x 2 =	1960
3868 FORK LIFT 8000#	3050	x 6 =	18,300
8015 GENERATORS	675	x 2 =	1350
4356 FE LOADER 2CY	3520	x 2 =	7040
4374 BOBCAT	1555	x 6 =	9330
6100 HYD CONC RAM	3630	x 2 =	7260
FLATBED	800	x 2 =	1600
P-U TRUCK 4WD 3/4TN	540	x 6 =	3240
4527 CAT 6WAY	3275	x 1 =	3275
COMPACTOR	390	x 2 =	780
4178 BACKHOE	4280	x 2 =	8560
0519 BREAKER	170	x 3 =	510
1570 SHEEPSFOOT 66"	4275	x 1 =	4275
HOSES - PUMP SECTION/DISCH	85	x 3 =	170
AIR HOSE 3/4 x 50'	40	x 20 =	800
AIR HOSE 2" x 50'	140	x 10 =	1400
TORCH COMPLETE	180	x 4 =	720

SIXTY MONTH SCHEDULE BUT ONLY 1/2 OF EQUIPMENT ON SITE AT ANY ONE TIME. ON SITE 1 OFF SITE LABOR EQUALS 4916,606. $\frac{2,967,966}{4,916,606} = 60.4\%$ USE 60%

$80400 \times 30 = 2,412,000$
 $1,48240$
 313560

 $2,773,800$
 $194,166$

 $2,967,966$

MOB & DEMOB 2%
 GAS, OIL, GREASE, TIRES, PARTS, ETC 13%
 LABOR ≈ 7%
 TOTAL = ≈ 60% LABOR

TYVEK SUITS FOR LEVEL "C" AND "D" CONDITIONS

Average remediation period for soils, buildings, and equipment is 4 years 5 months based on current schedule.

Say Average manpower is 55 men - 4 years 5 months

Tyvek suit/hood \$ 6.25 ea. (Fire Retardant)

Boot covers 3.75

Gloves 1.50

\$11.50

Use 2 changes per day - say 25 men Level "C" condition dressout -

25 x 2 changes x 5 day/week x 50 weeks x 4.42 years

= 55250 suits x \$11.50 = \$635400.00

Cartridges (2 for \$6.00) say 25 men - 2 per man day

25 x 2 x 5 days x 50 weeks x 4.42 years = 55250 cartridges ÷ 2 x \$6.00 = \$165000.00

Face Masks - 25 men - use 2 masks per year x 4.42 years = 221 ea x \$20.00 each = \$4400.00

Level "D"

30 men x 2 changes daily x 5 days x 50 weeks x 4.42 years =

66300 x \$11.50 each = \$762500.00

Total \$1,568,100.00

Cost data from the 1993 Lab Safety General Supply Catalog.

(ATTACHMENT "E" to the Estimate Basis Document)

RMI ENVIRONMENTAL SERVICES
 RE: RMI Decommissioning Project
 COST ESTIMATE ESCALATION TABLE

10-FEB-94
 By: C. Kinney

Fiscal Year	DOE Guidance Index		RMI Estimate Index	
	% of Change	Index	% of Change	Index
1992	'92 Base	0.0%	1.000	
1993		1.9%	1.019	--1.9%
1994		2.5%	1.044	0.981
1995		3.0%	1.075	'93 Base
1996		3.2%	1.109	0.0%
1997		3.4%	1.147	1.000
1998		3.3%	1.185	2.5%
1999	*	3.0%	1.221	1.025
2000	*	3.0%	1.258	3.0%
2001	*	3.0%	1.296	1.056
2002	*	3.0%	1.335	3.2%
2003	*	3.0%	1.375	1.090
2004	*	3.0%	1.416	3.4%
2005	*	3.0%	1.458	1.127
2006	*	3.0%	1.502	3.3%
2007	*	3.0%	1.547	1.164
2008	*	3.0%	1.593	3.0%
2009	*	3.0%	1.641	1.199
2010	*	3.0%	1.690	3.0%
2011	*	3.0%	1.741	1.235
2012	*	3.0%	1.793	3.0%
2013	*	3.0%	1.847	1.272
2014	*	3.0%	1.902	3.0%
2015	*	3.0%	1.959	1.310
2016	*	3.0%	2.018	3.0%
2017	*	3.0%	2.079	1.349
2018	*	3.0%	2.141	3.0%
2019	*	3.0%	2.205	1.389
2020	*	3.0%	2.271	3.0%
				1.431
				3.0%
				1.474
				3.0%
				1.518
				3.0%
				1.564
				3.0%
				1.611
				3.0%
				1.659
				3.0%
				1.709
				3.0%
				1.760
				3.0%
				1.813
				3.0%
				1.867
				3.0%
				1.923
				3.0%
				1.981
				3.0%
				2.040
				3.0%
				2.101
				3.0%
				2.164
				3.0%
				2.229

Notes:

1. DOE Guidance Index is the Departmental Price Change Index as prepared by Data Resources and as published by DOE. DOE Order 5700.2c requires use of these escalation rates as forecasted by Data Resources.
2. Current project estimated rates for this estimate is based on FY93 rates.
3. 3% per year beyond 1998 was used as directed by DOE (per Ward Best) on 17-DEC-93.

(ATTACHMENT "F" to the Estimate Basis Document)

RMI ENVIRONMENTAL SERVICES
 RE: RMI DECOMMISSIONING PROJECT
 ESTIMATE RECONCILIATION

08-FEB-94

WBS		9-93 Estimate (Rev. 9)	Shifted To Another WBS	Corrected Estimated Amounts	Change to Outside Labs	Added Operate GW Unit	D&D Mod Lab & Ofc Bldgs	Corrected Estimated Amounts	Revised Contractor Markups	Updated Burial Fee Rate	Updated Lab Analysis Qty./Cost	Deleted Fields Brook	Changed Project Duration	Added RMI Fee	2-94 Estimate
1.0	<u>Total Project Estimate</u>	230,893,659	0	2,210,640	(2,148,904)	850,000	715,108	2,546,316	(11,704,904)	(2,356,669)	(410,984)	(4,558,801)	132,568,838	17,884,701	356,490,000
1.1.1.1	PROJECT MANAGEMENT	25,621,197	0	0	0	0	0	(100)	0	0	0	0	60,812,613	4,453,522	90,887,232
1.1.1.2	SITE SERVICES	19,073,678	0	0	24,266	0	0	1,371,978	0	0	0	0	51,852,647	3,726,441	76,049,010
1.1.2.1	SITE PREPARATIONS	13,293,515	0	38,528	(2,752,002)	0	(193,578)	0	(181,575)	0	0	0	(8,443,178)	90,773	1,852,483
1.1.2.2	BUILDING GROUP "A"	70,614,465	0	819,809	182,838	0	0	0	(5,771,033)	(771,087)	0	0	484,240	3,377,958	68,937,190
1.1.2.3	BUILDING GROUP "B"	4,133,244	0	53,986	64,224	0	0	0	(285,898)	(42,223)	0	0	(433,334)	179,823	3,669,822
1.1.2.4	BUILDING GROUP "C"	1,064,197	0	10,691	27,899	0	0	0	0	(14,326)	0	0	746,255	94,534	1,929,240
1.1.2.5	BUILDING GROUP "D"	313,355	0	114,732	116,560	0	0	0	(4,565,092)	(1,338,591)	(38,220)	0	16,769,005	4,491,056	91,653,228
1.1.3.1	ON-SITE SOILS	75,444,319	0	890,751	0	0	908,686	(325,562)	(196,744)	(14,595)	0	0	1,181,159	108,079	2,205,670
1.1.3.2	OFF-SITE SOILS	7,209,339	0	226,799	0	0	0	0	(322,710)	(174,847)	(372,764)	0	6,177,690	656,613	13,400,120
1.1.4.1	C.A.M.U.	9,027,431	0	55,344	187,321	850,000	0	0	(381,852)	0	0	0	3,654,578	690,069	14,082,891
1.1.4.2	SITE-WIDE GROUNDWATER	540,118	0	0	0	0	0	0	0	0	0	0	(232,837)	15,833	323,114
1.X	RMI Settlement Costs	0	0	0	0	0	0	1,500,000	0	0	0	0	0	0	1,500,000
1.2	FIELDS BROOK	4,558,801	0	0	0	0	0	0	0	0	0	(4,558,801)	0	0	0
1.1.1.1	<u>PROJECT MANAGEMENT</u>	25,621,197	0	0	0	0	0	(100)	0	0	0	0	60,812,613	4,453,522	90,887,232
1.1.1.1.1	Project Controls	0	12,900	0	0	0	0	0	0	0	0	0	0	0	12,900
1.1.1.1.2	Technical Support	852,000	0	0	0	0	0	0	0	0	0	0	967,500	0	1,819,500
1.1.1.1.3	Quality Assurance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.1.1.1.4	Admin & Training	1,045,915	0	0	0	0	0	0	0	0	0	0	954,065	0	2,000,000
1.1.1.1.5	Technology Development	421,700	0	0	0	0	0	(100)	0	0	0	0	0	0	421,600
1.1.1.1	RMI Staffing Plan - Labor	13,722,700	(12,900)	0	0	0	0	0	0	0	0	0	22,569,800	0	36,279,600
1.1.1.1	RMI Staffing Plan - M & S	4,834,130	(3,019,460)	0	0	0	0	0	0	0	0	0	9,633,330	0	11,448,000
1.1.1.1	General & Administrative (G&A)	0	3,019,460	0	0	0	0	0	0	0	0	0	3,318,592	0	6,338,052
1.1.1.1	Contingency	2,469,683	0	0	0	0	0	0	0	0	0	0	309,799	0	2,779,482
1.1.1.1	RMI Fee	0	0	0	0	0	0	0	0	0	0	0	0	4,453,522	4,453,522
1.1.1.1	Escalation	2,275,069	0	0	0	0	0	0	0	0	0	0	0	0	25,334,576
1.1.1.2	<u>SITE SERVICES</u>	19,073,678	0	0	24,266	0	0	1,371,978	0	0	0	0	51,852,647	3,726,441	76,049,010
1.1.1.2.1.1	Surveillance & Maintenance	0	0	0	0	0	0	0	0	0	0	0	219,800	0	219,800
1.1.1.2.1.2	Environmental Monitoring	500,249	(750,000)	0	1,446,627	0	0	750,000	0	0	0	0	4,434,898	0	6,481,774
1.1.1.2.2.3.1	Develop Procurement Plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.1.1.2.2.3.2	Major Site-Wide Equip Procure	3,064,505	0	0	(980,500)	0	0	0	0	0	0	0	1,681,643	0	4,746,148
1.1.1.2.2.3.3	New Modular Lab	980,500	0	0	(441,861)	0	0	0	0	0	0	0	0	0	0
1.1.1.2.2.3.4	Laboratory Equipment	2,209,305	0	0	0	0	0	0	0	0	0	0	2,308,892	0	4,076,336
1.1.1.2.2.3.5	Other Equipment Procurement	1,141,271	0	0	0	0	0	0	0	0	0	0	2,063,893	0	3,205,164
1.1.1.2.3.a	Utilities (SS holding tank)	3,200	0	0	0	0	0	0	0	0	0	0	112,000	0	115,200
1.1.1.2.3.b	PC Maintenance & Support	608,400	0	0	0	0	0	0	0	0	0	0	1,216,800	0	1,825,200
1.1.1.2.3.c	Office & Whse Space Rental	1,332,664	0	0	0	0	0	621,978	0	0	0	0	3,350,805	0	5,305,447
1.1.1.2	RMI Staffing Plan - Labor	3,392,800	0	0	0	0	0	0	0	0	0	0	9,571,800	0	12,954,600
1.1.1.2	RMI Staffing Plan - M & S	1,239,161	(261,317)	0	0	0	0	0	0	0	0	0	3,577,587	0	4,555,431
1.1.1.2	General & Administrative (G&A)	0	1,011,317	0	0	0	0	0	0	0	0	0	4,291,986	0	5,303,303
1.1.1.2	Contingency	3,102,391	0	0	0	0	0	0	0	0	0	0	(776,686)	0	2,325,705
1.1.1.2	RMI Fee	0	0	0	0	0	0	0	0	0	0	0	0	3,726,441	3,726,441
1.1.1.2	Escalation	1,399,232	0	0	0	0	0	0	0	0	0	0	0	0	21,198,461

(ATTACHMENT "G" to the Estimate Basis Document)

RMI ENVIRONMENTAL SERVICES
 RE: RMI DECOMMISSIONING PROJECT
 ESTIMATE RECONCILIATION

08-FEB-94

WBS		9-93 Estimate (Rev. 0)	Shifted To Another WBS	Corrected Estimated Amounts	Change to Outside Labs	Added Operate GW Unit	D&D Mod Lab & Ofc Bldgs	Corrected Estimated Amounts	Revised Contractor Markups	Updated Burial Fee Rate	Updated Lab Analysis Qty/Cost	Deleted Fields Brook	Changed Project Duration	Added RMI Fee	2-94 Estimate
1.1.2.1	<u>SITE PREPARATIONS</u>	13,293,515	0	38,528	(2,752,002)	0	(193,578)	0	(181,575)	0	0		(8,443,178)	90,773	1,852,483
1.1.2.1.1	Laydown Areas/Staging	50,978		700					(5,552)				(23,831)		32,295
1.1.2.1.2	RF-6 Bldg Addn	145,886		2,330					(13,979)				(54,235)		80,002
1.1.2.1.3	Electrical	680,206		11,120					(51,245)				(480,183)		159,898
1.1.2.1.4	Water Trtmt & San Sewer Reroute	87,754		3,077					1,539						59,292
1.1.2.1.5	Temporary Facilities	499,068		3,280					33,348				(185,719)		233,281
1.1.2.1.6	Constr. Runoff & Erosion Control	22,751		561					(5,912)						17,400
1.1.2.1.7	Security Upgrade & Contr Suppt	192,748		830			(193,578)								0
1.1.2.1.8	Lab Upgrade	2,752,002	(16,630)	16,630	(2,752,002)										0
1.1.2.1.9	Technical Support	702,700	(522,700)												0
1.1.2.1	RMI Staffing Plan - Labor	3,989,900	522,700												180,000
1.1.2.1	RMI Staffing Plan - M & S	1,542,158	(112,554)										(4,301,000)		211,600
1.1.2.1	General & Administrative (G&A)	0	129,184										(1,353,873)		75,731
1.1.2.1	Contingency	1,998,576													129,184
1.1.2.1	RMI Fee	0											(1,941,924)		56,652
1.1.2.1	Escalation	618,788												90,773	90,773
													(102,413)		516,375
1.1.2.2	<u>BUILDING GROUP "A"</u>	70,614,465	0	819,809	182,838	0	0	0	(5,771,033)	(771,087)	0	0	484,240	3,377,958	68,937,190
1.1.2.2.1	Technical Support	15,000													15,000
1.1.2.2.2	Characterization	0	116,200												116,200
1.1.2.2.3.1	Equipment Remediation	4,158,897		203,285					(1,573,601)						2,788,381
1.1.2.2.3.2	Building Remediation	11,002,464		502,624					(4,197,432)						7,307,656
1.1.2.2.4.1	W. M. - Handling & Packaging	2,003,917		300											2,004,217
1.1.2.2.4.2	W. M. - Staging & Storage	0													0
1.1.2.2.4.3	W. M. - Shipments & Disposal	6,877,396								(771,087)					6,106,309
1.1.2.2.5	E.S. & H.	0													0
1.1.2.2.6	Laboratory Services	1,216,164	(113,600)	113,600	182,838										1,399,002
1.1.2.2	RMI Staffing Plan - Labor	22,061,800	(116,200)												16,283,100
1.1.2.2	RMI Staffing Plan - M & S	7,210,767	(3,803,032)										(5,662,500)		3,407,735
1.1.2.2	General & Administrative (G&A)	0	3,916,632												4,807,358
1.1.2.2	Contingency	9,692,861											890,726		2,108,214
1.1.2.2	RMI Fee	0											(7,584,647)		3,377,958
1.1.2.2	Escalation	6,375,399													19,216,060
													12,840,661		
1.1.2.3	<u>BUILDING GROUP "B"</u>	4,133,244	0	53,988	64,224	0	0	0	(285,898)	(42,223)	0	0	(433,334)	179,823	3,669,822
1.1.2.3.1	Technical Support	8,000													8,000
1.1.2.3.2	Characterization	0													0
1.1.2.3.3.1	Equipment Remediation	270,876		13,114					(91,902)						192,088
1.1.2.3.3.2	Building Remediation	566,639		25,872					(193,996)						398,515
1.1.2.3.4.1	W. M. - Handling & Packaging	80,365													80,365
1.1.2.3.4.2	W. M. - Staging & Storage	0													0
1.1.2.3.4.3	W. M. - Shipments & Disposal	330,430													0
1.1.2.3.5	E.S. & H.	0								(42,223)					288,207
1.1.2.3.6	Laboratory Services	0	(15,000)	15,000	64,224										0
1.1.2.3	RMI Staffing Plan - Labor	1,408,200													64,224
1.1.2.3	RMI Staffing Plan - M & S	462,266	(240,916)										(388,700)		1,019,500
1.1.2.3	General & Administrative (G&A)	0	255,916										(173,346)		48,002
1.1.2.3	Contingency	490,591													255,916
1.1.2.3	RMI Fee (Unescalated)	0											(378,362)		112,229
1.1.2.3	Escalation	515,877												179,823	179,823
													507,076		1,022,953

RMI ENVIRONMENTAL SERVICES
 RE: RMI DECOMMISSIONING PROJECT
 ESTIMATE RECONCILIATION

06-FEB-94

WBS		9-93 Estimate (Rev. 0)	Shifted To Another WBS	Corrected Estimated Amounts	Change to Outside Labs	Added Operate GW Unit	D&D Mod Lab & Cfc Bldgs	Corrected Estimated Amounts	Revised Contractor Markups	Updated Burial Fee Rate	Updated Lab Analysis Qty/Cost	Deleted Fields Brook	Changed Project Duration	Added RMI Fee	2-94 Estimate
1.1.2.4	<u>BUILDING GROUP "C"</u>	1,064,197	0	10,691	27,889	0	0	0	0	(14,326)	0	0	746,255	94,534	1,929,240
1.1.2.4.1	Technical Support	6,400													6,400
1.1.2.4.2	Characterization	0													0
1.1.2.4.3.1	Equipment Remediation	2,621		129											1,764
1.1.2.4.3.2	Building Remediation	77,813		3,512									(986)		51,581
1.1.2.4.4.1	W. M. - Handling & Packaging	23,756											(29,744)		23,756
1.1.2.4.4.2	W. M. - Staging & Storage	0													0
1.1.2.4.4.3	W. M. - Shipments & Disposal	441,080								(14,326)					426,754
1.1.2.4.5	E.S. & H.	0													0
1.1.2.4.6	Laboratory Services	0	(7,050)	7,050	27,889										27,889
1.1.2.4	RMI Staffing Plan - Labor	140,800												376,400	517,200
1.1.2.4	RMI Staffing Plan - M & S	40,630	(21,703)											29,129	48,056
1.1.2.4	General & Administrative (G&A)	0	28,753											105,783	134,536
1.1.2.4	Contingency	165,314												(106,315)	58,999
1.1.2.4	RMI Fee (Unescalated)	0												94,534	94,534
1.1.2.4	Escalation	165,783												371,988	537,771
1.1.2.5	<u>BUILDING GROUP "D"</u>	313,355	0	114,732	116,560	0	908,686	(325,562)	(196,744)	(14,595)	0	0	1,181,159	108,079	2,205,670
1.1.2.5.1	Technical Support	5,000													5,000
1.1.2.5.2	Characterization	0													0
1.1.2.5.3.1	Equipment Remediation	0													0
1.1.2.5.3.2	Building Remediation	87,330		1,132			693,229	(247,200)	(196,744)						337,747
1.1.2.5.4.1	W. M. - Handling & Packaging	1,357					41,657	(15,162)							27,852
1.1.2.5.4.2	W. M. - Staging & Storage	0													0
1.1.2.5.4.3	W. M. - Shipments & Disposal	3,340					173,800	(63,200)		(14,595)					99,345
1.1.2.5.5	E.S. & H.	0													0
1.1.2.5.6	Laboratory Services	0	(113,600)	113,600	116,560										116,560
1.1.2.5	RMI Staffing Plan - Labor	93,900												381,100	475,000
1.1.2.5	RMI Staffing Plan - M & S	26,235	94,823											78,938	199,996
1.1.2.5	General & Administrative (G&A)	0	18,777											135,036	153,813
1.1.2.5	Contingency	38,286												29,167	67,453
1.1.2.5	RMI Fee (Unescalated)	0												108,079	108,079
1.1.2.5	Escalation	57,907												556,918	614,825

RMI ENVIRONMENTAL SERVICES
 RE: RMI DECOMMISSIONING PROJECT
 ESTIMATE RECONCILIATION

08-FEB-94

WBS		9-93 Estimate (Rev. 0)	Shifted To Another WBS	Corrected Estimated Amounts	Change to Outside Labs	Added Operate GW Unit	D&D Mod Lab & Ofc Bldgs	Corrected Estimated Amounts	Revised Contractor Markups	Updated Burial Fee Rate	Updated Lab Analysis Qty/Cost	Deleted Fields Brook	Changed Project Duration	Added RMI Fee	2-94 Estimate
1.1.3.1	<u>ON-SITE SOILS</u>	75,444,319	0	890,751	0	0	0	0	(4,565,092)	(1,338,591)	(38,220)	0	16,769,005	4,491,056	91,653,228
1.1.3.1.1	Technical Support	8,000													8,000
1.1.3.1.2	Pathways Analysis	0													0
1.1.3.1.3	Characterization	86,642		3,649					(31,983)						58,308
1.1.3.1.4	Soils Remediation Operations	12,323,335		512,102					(4,533,109)						8,302,328
1.1.3.1.5.1	W. M. - Handling & Packaging	4,044,563													4,044,563
1.1.3.1.5.2	W. M. - Staging & Storage	0													0
1.1.3.1.5.3	W. M. - Shipments & Disposal	12,431,160													11,092,569
1.1.3.1.6	E.S. & H.	0								(1,338,591)					0
1.1.3.1.7	Laboratory Services	1,940,060	(375,000)	375,000											0
1.1.3.1.8	Independent Verification	460,350									(38,220)				1,901,840
1.1.3.1	RMI Staffing Plan - Labor	16,429,000													460,350
1.1.3.1	RMI Staffing Plan - M & S	5,522,706	(3,511,651)										6,984,400		23,413,400
1.1.3.1	General & Administrative (G&A)	0	3,886,651										1,127,286		3,138,341
1.1.3.1	Contingency	13,412,621											2,504,818		6,391,469
1.1.3.1	RMI Fee (Unescalated)	0											(10,609,713)		2,802,908
1.1.3.1	Escalation	8,785,882												4,491,056	4,491,056
													16,762,214		25,548,096
1.1.3.2	<u>OFF-SITE SOILS</u>	7,209,339	0	226,799	0	0	0	0	(322,710)	(174,847)	(372,764)	0	6,177,690	656,613	13,400,120
1.1.3.2.1	Technical Support	8,000													8,000
1.1.3.2.2	Pathways Analysis	0													0
1.1.3.2.3	Characterization	0													0
1.1.3.2.4	Soils Remediation Operations	606,147		31,799					(322,710)						615,236
1.1.3.2.5.1	W. M. - Handling & Packaging	508,376													508,376
1.1.3.2.5.2	W. M. - Staging & Storage	0													0
1.1.3.2.5.3	W. M. - Shipments & Disposal	1,597,720													1,422,873
1.1.3.2.6	E.S. & H.	0								(174,847)					0
1.1.3.2.7	Laboratory Services	985,504	(195,000)	195,000											0
1.1.3.2.8	Independent Verification	331,155									(372,764)				612,740
1.1.3.2	RMI Staffing Plan - Labor	938,800													31,155
1.1.3.2	RMI Staffing Plan - M & S	428,028	(74,122)										2,629,000		3,567,800
1.1.3.2	General & Administrative (G&A)	0	269,122										243,913		597,819
1.1.3.2	Contingency	1,226,302											665,340		934,462
1.1.3.2	RMI Fee (Unescalated)	0											(816,504)		409,798
1.1.3.2	Escalation	279,307												656,613	656,613
													3,455,941		3,735,248

RMI ENVIRONMENTAL SERVICES
 RE: RMI DECOMMISSIONING PROJECT
 ESTIMATE RECONCILIATION

08-FEB-94

WBS		9-93 Estimate (Rev. 0)	Shifted To Another WBS	Corrected Estimated Amounts	Change to Outside Labs	Added Operate GW Unit	D&D Mod Lab & Ofc Bldgs	Corrected Estimated Amounts	Revised Contractor Markups	Updated Burial Fee Rate	Updated Lab Analysis Qty/Cost	Deleted Fields Brook	Changed Project Duration	Added RMI Fee	2-94 Estimate
1.1.4.1	<u>C.A.M.U.</u>	9,027,431	0	55,344	187,321	850,000	0	0	(381,852)	0	0	0	3,654,578	690,069	14,082,891
1.1.4.1.1	Technical Support	8,000													8,000
1.1.4.1.2	Characterization	60,000													60,000
1.1.4.1.3	Groundwater Remediation Ops	2,519,444		35,835		850,000			(381,852)						3,023,427
1.1.4.1.4.1	W. M. - Handling & Packaging	395,616		(2,991)											392,625
1.1.4.1.4.2	W. M. - Staging & Storage	0													0
1.1.4.1.4.3	W. M. - Shipments & Disposal	948,509													948,509
1.1.4.1.5	E.S. & H.	160,000													160,000
1.1.4.1.6	Laboratory Services	20,900	(22,500)	22,500	187,321										208,221
1.1.4.1.7	Independent Verification	8,910													8,910
1.1.4.1	RMI Staffing Plan - Labor	1,877,600											(197,400)		1,680,200
1.1.4.1	RMI Staffing Plan - M & S	576,195	(466,299)										1,454,512		1,564,408
1.1.4.1	General & Administrative (G&A)	0	488,799										493,276		982,075
1.1.4.1	Contingency	1,127,677											(696,999)		430,678
1.1.4.1	RMI Fee (Unescalated)	0												690,069	690,069
1.1.4.1	Escalation	1,324,380											2,601,189		3,925,569
1.1.4.2	<u>SITE-WIDE GROUNDWATER</u>	540,118	0	0	0	0	0	0	0	0	0	0	(232,837)	15,833	323,114
1.1.4.2.1	Technical Support	8,000													8,000
1.1.4.2.2	Characterization	72,000													72,000
1.1.4.2.3	Groundwater Remediation Ops	0													0
1.1.4.2.4.1	W. M. - Handling & Packaging	0													0
1.1.4.2.4.2	W. M. - Staging & Storage	0													0
1.1.4.2.4.3	W. M. - Shipments & Disposal	0													0
1.1.4.2.5	E.S. & H.	0													0
1.1.4.2.6	Laboratory Services	0													0
1.1.4.2.7	Independent Verification	9,900													9,900
1.1.4.2	RMI Staffing Plan - Labor	250,000											(156,500)		93,500
1.1.4.2	RMI Staffing Plan - M & S	77,062	(22,533)										(53,129)		1,400
1.1.4.2	General & Administrative (G&A)	0	22,533												22,533
1.1.4.2	Contingency	107,076											(97,195)		9,881
1.1.4.2	RMI Fee (Unescalated)	0												15,833	15,833
1.1.4.2	Escalation	16,080											73,987		90,067

RMI ENVIRONMENTAL SERVICES
 RE: RMI DECOMMISSIONING PROJECT
 ESTIMATE RECONCILIATION

08-FEB-94

WBS		9-93 Estimate (Rev. 0)	Shifted To Another WBS	Corrected Estimated Amounts	Change to Outside Labs	Added Operate GW Unit	D&D Mod Lab & Ofc Bldgs	Corrected Estimated Amounts	Revised Contractor Markups	Updated Burial Fee Rate	Updated Lab Analysis Qty/Cost	Deleted Fields Brook	Changed Project Duration	Added RMI Fee	2-94 Estimate
1.X	RMI Settlement Costs	0	0	0	0	0	0	1,500,000	0	0	0	0	0	0	1,500,000 1,500,000
1.2	<u>FIELDS BROOK</u>	<u>4,558,801</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>(4,558,801)</u>	<u>0</u>	<u>0</u>	<u>0</u>
1.2	Remediation	2,209,000													0
1.2	Studies	1,555,000										(2,209,000)			0
1.2	RMI Staffing Plan - Labor	250,000										(1,555,000)			0
1.2	RMI Staffing Plan - M & S	71,476	(71,476)									(250,000)			0
1.2	General & Administrative (G&A)	0	71,476									(71,476)			0
1.2	Contingency	0													0
1.2	RMI Fee (Unescalated)	0													0
1.2	Escalation	473,325													0
												(473,325)			0

Burial Box Estimate

(DOE BULKING FACTORS APPLIED)

D. C. Heffner 9-13-93

REV. (6)

=====

CAMPBELL SAW B.

WBS 1.1.2.2

=====

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	2.80 TONS		0.34
DEMO STRUCT STEEL	2.30 TONS		0.28
DEMO HVAC SYSTEMS	2.00 TONS		0.24
DEMO PIPING	1.40 TONS		0.17
DEMO EXTERIOR WALLS	1.00 TONS		0.12
DEMO ROOFING SYSTEM	0.60 TONS		0.07
INTERNAL MISC. STEEL	0.30 TONS		0.04
DCON CONCRETE	109.00 CUFT	1.82	
DEMO DOORS	24.00 CUFT		0.05
REM ELECT DISTRIBUTION	14.00 CUFT		0.03
DEMO WINDOWS	12.00 CUFT		0.02
	Total Rounded	2.00	2.00

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CEI SUBSTATION

WBS 1.1.2.3

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		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	6.40 TONS		0.77
REM ELECT DISTRIBUTION	550.00 CUFT		1.11
DCON CONCRETE	48.00 CUFT	0.80	
	Total Rounded	1.00	2.00

=====

COMPRESSOR ROOM

WBS 1.1.2.3

=====

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	4.40 TONS		0.53
DEMO PIPING	1.00 TONS		0.12
DEMO STRUCT STEEL	0.50 TONS		0.06
DEMO EXTERIOR WALLS	354.00 CUFT		0.72
DEMO ROOFING SYSTEM	46.00 CUFT		0.09
DEMO DOORS	23.00 CUFT		0.05
DCON CONCRETE	22.00 CUFT	0.37	
REM ELECT DISTRIBUTION	3.00 CUFT		0.01
	Total Rounded	1.00	2.00

(ATTACHMENT "H" to the Estimate Basis Document)

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DIEHEAD BUILD WBS 1.1.2.2

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		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	7.20 TONS		0.86
DEMO STRUCT STEEL	8.00 TONS		0.96
DEMO PIPING	2.00 TONS		0.24
DEMO EXTERIOR WALLS	2.00 TONS		0.24
DEMO ROOFING SYSTEM	1.25 TONS		0.15
DEMO HVAC SYSTEMS	1.00 TONS		0.12
INTERNAL MISC. STEEL	1.00 TONS		0.12
INSULATION	1,787.00 CUFT		1.63
DCON CONCRETE	154.00 CUFT	2.57	
DEMO DOORS	32.00 CUFT		0.06
REM ELECT DISTRIBUTION	20.00 CUFT		0.04
DEMO WINDOWS	16.00 CUFT		0.03
Total Rounded		3.00	5.00

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EMER EQUIP STOR WBS 1.1.2.4

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		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	0.40 TONS		0.05
DEMO ROOFING SYSTEM	0.25 TONS		0.03
DEMO EXTERIOR WALLS	0.25 TONS		0.03
EXISTING MISC. RESIDUALS	722.00 CUFT	18.51	
DCON CONCRETE	10.00 CUFT	0.17	
REM ELECT DISTRIBUTION	1.50 CUFT		0.00
Total Rounded		19.00	1.00

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 RUNOUT TABLE B.
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WBS 1.1.2.2
 =====

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	4.80 TONS		0.58
DEMO STRUCT STEEL	5.00 TONS		0.60
DEMO HVAC SYSTEMS	2.00 TONS		0.24
DEMO PIPING	2.00 TONS		0.24
INTERNAL MISC. STEEL	1.00 TONS		0.12
DEMO EXTERIOR WALLS	0.61 TONS		0.07
DEMO ROOFING SYSTEM	0.60 TONS		0.07
INSULATION	1,200.00 CUFT		1.09
DCON CONCRETE	92.00 CUFT	1.53	
DEMO DOORS	20.00 CUFT		0.04
REM ELECT DISTRIBUTION	12.00 CUFT		0.02
DEMO WINDOWS	10.00 CUFT		0.02
Total Rounded		2.00	4.00

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 SEWAGE TREATMNT
 =====

WBS 1.1.2.3
 =====

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	9.60 TONS		1.15
DEMO STRUCT STEEL	7.00 TONS		0.84
DEMO EXTERIOR WALLS	6.00 TONS		0.72
DEMO PIPING	5.00 TONS		0.60
DEMO ROOFING SYSTEM	1.00 TONS		0.12
DCON CONCRETE	68.00 CUFT	1.13	
DEMO DOORS	25.00 CUFT		0.05
REM ELECT DISTRIBUTION	8.00 CUFT		0.02
Total Rounded		2.00	4.00

HAZ WASTE STORE

WBS 1.1.2.4

			B-25s	Sea/Lands
DEMO EXTERIOR WALLS	1.00	TONS		0.12
DEMO ROOFING SYSTEM	0.50	TONS		0.06
INTERNAL MISC. STEEL	0.50	TONS		0.06
DCON CONCRETE	51.20	CUFT	0.85	
DEMO DOORS	11.00	CUFT		0.02
REM ELECT DISTRIBUTION	5.50	CUFT		0.01
Total Rounded			1.00	1.00

MAIN PLANT

WBS 1.1.2.2

			B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	320.00	TONS		38.44
DEMO STRUCT STEEL	170.00	TONS		20.42
DEMO HVAC SYSTEMS	91.00	TONS		10.93
DEMO ROOFING SYSTEM	40.00	TONS		4.80
DEMO PIPING	39.00	TONS		4.68
DEMO EXTERIOR WALLS	31.00	TONS		3.72
INTERNAL MISC. STEEL	18.00	TONS		2.16
EXISTING MISC. RESIDUALS	21,523.00	CUFT	551.87	
INSULATION	10,578.00	CUFT		9.64
DEMO INTERIOR WALLS	2,412.00	CUFT		4.89
DCON CONCRETE	2,285.00	CUFT	38.06	
DEMO WINDOWS	1,027.00	CUFT		2.08
REM ELECT DISTRIBUTION	944.00	CUFT		1.91
DEMO DOORS	254.00	CUFT		0.51
Total Rounded			590.00	105.00

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N.W. WAREHOUSE

WBS 1.1.2.2

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			B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	69.60	TONS		8.36
DEMO STRUCT STEEL	40.00	TONS		4.80
DEMO HVAC SYSTEMS	32.00	TONS		3.84
DEMO PIPING	18.00	TONS		2.16
INTERNAL MISC. STEEL	4.00	TONS		0.48
DEMO ROOFING SYSTEM	3.00	TONS		0.36
DEMO EXTERIOR WALLS	1.50	TONS		0.18
EXISTING MISC. RESIDUALS	2,747.00	CUFT	70.44	
INSULATION	12,155.00	CUFT		11.08
DCON CONCRETE	1,478.40	CUFT	24.63	
DEMO DOORS	314.00	CUFT		0.64
REM ELECT DISTRIBUTION	185.00	CUFT		0.37
DEMO WINDOWS	157.00	CUFT		0.32
Total Rounded			96.00	33.00

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NE BILLET STOR

WBS 1.1.2.2

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			B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	16.80	TONS		2.02
DEMO STRUCT STEEL	17.00	TONS		2.04
DEMO PIPING	5.50	TONS		0.66
DEMO ROOFING SYSTEM	3.00	TONS		0.36
INTERNAL MISC. STEEL	3.00	TONS		0.36
DEMO EXTERIOR WALLS	2.00	TONS		0.24
DEMO HVAC SYSTEMS	1.00	TONS		0.12
INSULATION	4,297.00	CUFT		3.92
DCON CONCRETE	460.00	CUFT	7.66	
DEMO DOORS	100.00	CUFT		0.20
REM ELECT DISTRIBUTION	41.00	CUFT		0.08
Total Rounded			8.00	11.00

=====

OUTDOOR SUB STA

WBS 1.1.2.3

=====

			B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	6.40	TONS		0.77
REM ELECT DISTRIBUTION	550.00	CUFT		1.11
DCON CONCRETE	48.00	CUFT	0.80	
Total Rounded			1.00	2.00

RF - 3 BUILD

WBS 1.1.2.2

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	10.40 TONS		1.25
DEMO STRUCT STEEL	9.00 TONS		1.08
DEMO EXTERIOR WALLS	3.00 TONS		0.36
DEMO ROOFING SYSTEM	2.00 TONS		0.24
DEMO HVAC SYSTEMS	2.00 TONS		0.24
DEMO PIPING	2.00 TONS		0.24
INTERNAL MISC. STEEL	1.00 TONS		0.12
INSULATION	4,368.00 CUFT		3.98
DCON CONCRETE	173.00 CUFT	2.88	
DEMO DOORS	32.00 CUFT		0.06
REM ELECT DISTRIBUTION	16.00 CUFT		0.03
DEMO WINDOWS	16.00 CUFT		0.03
Total Rounded		3.00	8.00

RF 6 BLDG ADD

WBS 1.1.2.2

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	15.20 TONS		1.83
DEMO STRUCT STEEL	19.00 TONS		2.28
DEMO ROOFING SYSTEM	6.00 TONS		0.72
DEMO PIPING	4.00 TONS		0.48
DEMO EXTERIOR WALLS	3.00 TONS		0.36
INTERNAL MISC. STEEL	2.00 TONS		0.24
DEMO HVAC SYSTEMS	1.00 TONS		0.12
INSULATION	7,067.00 CUFT		6.44
EXISTING MISC. RESIDUALS	5,216.00 CUFT	133.74	
DCON CONCRETE	800.00 CUFT	13.33	
REM ELECT DISTRIBUTION	64.00 CUFT		0.13
DEMO DOORS	54.00 CUFT		0.11
Total Rounded		148.00	13.00

RF 6 BUTLER BLD

WBS 1.1.2.2

			B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	146.56	TONS		17.60
DEMO STRUCT STEEL	45.00	TONS		5.41
DEMO PIPING	15.00	TONS		1.80
DEMO ROOFING SYSTEM	5.50	TONS		0.66
INTERNAL MISC. STEEL	4.90	TONS		0.59
DEMO EXTERIOR WALLS	3.20	TONS		0.38
DEMO HVAC SYSTEMS	2.00	TONS		0.24
INSULATION	17,274.00	CUFT		15.75
* EXISTING MISC. RESIDUALS	16,450.00	CUFT	421.79	
DCON CONCRETE	1,739.00	CUFT	28.97	
DEMO DOORS	1,130.00	CUFT		2.29
DEMO INTERIOR WALLS	702.00	CUFT		1.42
REM ELECT DISTRIBUTION	128.00	CUFT		0.26
DEMO WINDOWS	50.00	CUFT		0.10
Total Rounded			451.00	47.00

* Assumes worst case NTS acceptance criteria. (15gm. U-235/Container)

RMI SUBSTATION

WBS 1.1.2.3

			B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	4.00	TONS		0.48
REM ELECT DISTRIBUTION	550.00	CUFT		1.11
DCON CONCRETE	48.00	CUFT	0.80	
Total Rounded			1.00	2.00

TOOL CRIB

WBS 1.1.2.2

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	16.80 TONS		2.02
DEMO PIPING	7.00 TONS		0.84
DEMO STRUCT STEEL	7.00 TONS		0.84
DEMO HVAC SYSTEMS	1.00 TONS		0.12
INSULATION	1,215.00 CUFT		1.11
DEMO ROOFING SYSTEM	562.50 CUFT		1.14
DCON CONCRETE	180.00 CUFT	3.00	
DEMO DOORS	54.00 CUFT		0.11
REM ELECT DISTRIBUTION	20.00 CUFT		0.04
Total Rounded		3.00	7.00

WASTE WATER TRT

WBS 1.1.2.3

		B-25s	Sea/Lands
DEMO EQUIPMENT (80%)	17.60 TONS		2.11
DEMO PIPING	10.00 TONS		1.20
DEMO STRUCT STEEL	10.00 TONS		1.20
DEMO HVAC SYSTEMS	3.30 TONS		0.40
INTERNAL MISC. STEEL	2.00 TONS		0.24
DEMO EXTERIOR WALLS	1.50 TONS		0.18
DEMO ROOFING SYSTEM	1.00 TONS		0.12
INSULATION	2,316.00 CUFT		2.11
DCON CONCRETE	151.00 CUFT	2.52	
REM ELECT DISTRIBUTION	76.00 CUFT		0.15
DEMO WINDOWS	47.00 CUFT		0.10
DEMO DOORS	23.00 CUFT		0.05
Total Rounded		3.00	8.00

ON-SITE SOIL

WBS 1.1.3.1.5.3

		B-25s	Sea/Lands
DEMO STRUCT STEEL / RE-BAR / PIPE	324.65 TONS		39.00
CONCRETE / SOIL	466,613.00 CUFT	7773.00	
Total Rounded		7773.00	39.00

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OFF-SITE SOIL

WBS 1.1.3.2.5.3

=====

		B-25s	Sea/Lands
DEMO STRUCT STEEL / RE-BAR / PIPE	108.00 TONS		12.97
CONCRETE / SOIL	54,987.00 CUFT	915.99	
Total Rounded		916.00	13.00

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CAMU

WBS 1.1.4.1.4.3

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		B-25s	Sea/Lands
DEMO STRUCT STEEL / RE-BAR / PIPE	113.00 TONS		13.57
CONCRETE / SOIL	40,700.00 CUFT	677.99	
Total Rounded		678.00	14.00

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PROTECTIVE CLOTHING DISPOSAL

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		B-25s	Sea/Lands
PROTECTIVE CLOTHING @ 15.6 CUFT/DAY	26,000.00 CUFT	298.85	
Total Rounded		299.00	0.00

D. C. HEFFNER 9-13-93
 REV. (6)

	B-25s	Sea/Lands
Total	11,001	323

(ATTACHMENT "I" to the Estimate Basis Document)

ESTIMATE BASIS

B-25 CONTAINER COSTS

(Used for Soils, Concrete, and Asphalt Only)

PURCHASE PRICE

Containers (6,000# Capacity) -	\$448.00
	<u>25.00</u>
	473.00

PACKING AND LOADING COST

Container Liners -	\$17.00
Dicalite & Misc. -	<u>\$ 8.00</u>
Total	\$25.00

SHIPPING & BURIAL FEES

Freight Cost - \$3000/Load	\$ 500.00
Burial @ \$10/CF x 102	<u>\$1020.00</u> 858.00
Total	<u>\$1520.00</u> 1,358.00

Outside Volume (3.58 x 4.41 x 6.4) = 102 CF
 Empty Weight 600#
 Payload Weight 6000#
 Estimate Used 100#/CF for Soils
 Estimate Used 125#/CF for Concrete and Asphalt

55 GALLON DRUMS

PURCHASE PRICE:

Containers (7.72 CF Capacity) -	\$ 41.00
	<u>15.00</u>
	56.00

PACKING & LOADING COST

Drum Liners -	\$11.00
Dicalite & Misc. -	<u>\$ 4.00</u>
Total	\$15.00

SHIPPING & BURIAL COSTS

Freight \$3000/Load	- \$ 40.00
Burial Fees \$10/CF x 7.72	<u>- \$78.00</u> 65.00
Skids, Etc. 8.41	<u>- \$ 32.00</u>
Total	<u>\$150.00</u> 137.00

SEALAND CONTAINERS

PURCHASE PRICE

Containers (37,000# Capacity) -	\$3344.00
	<u>220.00</u>
	3564.00

PACKING & LOADING COST

Liner -	\$194.00
Dicalite & Misc. -	<u>\$ 26.00</u>
Total	\$220.00

SHIPPING & BURIAL COST

Freight 8.41	- \$ 3,000
Burial Fees \$10/CF x 1280CF	<u>- \$12,800</u> 10,765
Total	<u>- \$15,800</u> 13,765

Outside Volume (8' x 8' x 20') 1280CF
 Inside Volume 1097CF
 Empty Weight 5,000#
 Payload Weight 37,000#

Revised Burial Fee to \$8.41/cf
 on 27-JAN-94 - cu

RMI ENVIRONMENTAL SERVICES

10-FEB-94

RE: RMI Decommissioning Project

RCRA & RADIOLOGICAL ANALYSIS & SAMPLING ESTIMATE

Attached is the summary sheet, breakdowns by bldg, and backup data for characterization cost estimates as prepared by RMI staff.

Refer to the Estimate Basis Document and Activitiy specs for further information.

(ATTACHMENT "J" to the Estimate Basis Document)

Revised per E. M. ... 1/21/94

COSTS FOR ANALYSIS OF BUILDING, SOIL, AND CAMU SAMPLES FOR CHARACTERIZATION AND FINAL RELEASE						
PLACE	TIME	TYPE	NO. SAMPLES	NO. ANALYSES	COST PER SAMPLE	COST
BLDG B	CHAR			212	\$257	\$54,484
BLDG C	CHAR			212	\$257	\$54,484
BLDG D	CHAR			212	\$257	\$54,484
TOTAL	CHAR	RAD				ERR
BUILDINGS	CHAR	RCRA	240	2880	\$70.33	\$202,550
TOTAL	CHAR					ERR

ON-SOIL B	CHAR		250	2500	\$149	\$372,500
ON-SOIL D	CHAR		250	2500	\$149	\$372,500
ON-SOIL E	CHAR		250	2500	\$149	\$372,500
ON-SOIL F	CHAR		250	2500	\$149	\$372,500
TOTAL	CHAR		1000	10000	\$149	\$1,490,000

OFF SOIL-G	CHAR		250	2500	\$149	\$372,500
TOTAL	CHAR		250	2500	\$149	\$372,500

ON-SOIL B	FINAL SURV.	TOTAL U	1000	1000	\$155	\$155,000
	FINAL SURV.	Tc-99		100	\$161	\$16,100
ON-SOIL D	FINAL SURV.	TOTAL U	1000	1000	\$155	\$155,000
	FINAL SURV.	Tc-99		100	\$161	\$16,100
ON-SOIL E	FINAL SURV.	TOTAL U	200	200	\$155	\$31,000
	FINAL SURV.	Tc-99		20	\$161	\$3,220
ON-SOIL F	FINAL SURV.	TOTAL U	200	200	\$155	\$31,000
	FINAL SURV.	Tc-99		20	\$161	\$3,220
TOTAL U (ON-SOIL)	FINAL SURV.		2400	2400	\$155	\$372,000
TOTAL Tc-99 (ON SOIL)	FINAL SURV.			240	\$161	\$38,640
TOTAL COST (ON SOIL)	FINAL SURV.		4200	5260	78	\$410,640

OFF SOIL-G	FINAL SURV.	TOTAL U	200	200	\$155	\$31,000
	FINAL SURV.	Tc-99		20	\$161	\$3,220
OFF SOIL-A	FINAL SURV.	TOTAL U	200	200	\$155	\$31,000
	FINAL SURV.	Tc-99		20	\$161	\$3,220
OFF SOIL-C	FINAL SURV.	TOTAL U	1000	1000	\$155	\$155,000
	FINAL SURV.	Tc-99		100	\$161	\$16,100
TOTAL U (OFF-SOIL)	FINAL SURV.	TOTAL U		1400	\$155	\$217,000
TOTAL Tc-99 (OFF SOIL)	FINAL SURV.	Tc-99		140	\$161	\$22,540
TOTAL COST (OFF-SOIL)	FINAL SURV.		1400	3080	78	\$239,540

CAMU EV. POND	FINAL SURV.	TOTAL U	57	57	\$155	\$8,835
	FINAL SURV.	Tc-99		57	\$161	\$9,177
	FINAL SURV.	VOA		57	\$345	\$19,665
CAMU SWALE	FINAL SURV.	TOTAL U	83	83	\$155	\$12,865
	FINAL SURV.	Tc-99		83	\$161	\$13,363
	FINAL SURV.	VOA		83	\$345	\$28,635
CAMU SP. POND	FINAL SURV.	TOTAL U	125	125	\$155	\$19,375
	FINAL SURV.	Tc-99		125	\$161	\$20,125
	FINAL SURV.	VOA		125	\$345	\$43,125
TOTAL CAMU GRNDWTR	FINAL SURV.	TOTAL U		265	\$155	\$41,075
	FINAL SURV.	Tc-99		265	\$161	\$42,665
	FINAL SURV.	VOA		265	\$345	\$91,425
TOTAL COST CAMU GDWT	FINAL SURV.					\$175,165
CAMU EX. SOIL	FINAL SURV.	TOTAL U	50	50	\$155	\$7,750
	FINAL SURV.	Tc-99		50	\$161	\$8,050
	FINAL SURV.	VOA		50	\$345	\$17,250
TOTAL COST CAMU SOIL	FINAL SURV.					\$33,050
TOTAL CAMU	FINAL SURV.					\$208,215

IMPACT OF REDUCTION OF SAMPLES SIZE ON FIELD SURVEY COSTS FOR SOILS

Revised for 2 months 11/1/94

PLACE	STATUS	TYPE	ORIGINAL SAMPLE SIZE	REVISED SAMPLE SIZE	CHANGE	ORIGINAL COST	REVISED COST	% CHANGE
ON-SOIL B	AFFECTED	TOTAL U	2368	1000	1368	\$367,040	\$155,000	0.5777027027
		Tc-99	237	100	137	\$38,125	\$16,100	0.5777027027
ON-SOIL D	AFFECTED	TOTAL U	2085	1000	1085	\$323,175	\$155,000	0.520383693
		Tc-99	209	100	109	\$33,569	\$16,100	0.520383693
ON-SOIL E	NOT AFFECTED	TOTAL U	3680	200	3480	\$570,400	\$31,000	0.9456521739
		Tc-99	368	20	348	\$59,248	\$3,220	0.9456521739
ON-SOIL F	NOT AFFECTED	TOTAL U	608	200	408	\$94,240	\$31,000	0.6710526316
		Tc-99	61	20	41	\$9,789	\$3,220	0.6710526316
TOTAL U (ON-SOIL)			8741	2400	6341	\$1,354,855	\$372,000	0.7254318728
TOTAL Tc-99 (ON SOIL)			874	240	634	\$140,730	\$38,640	0.7254318728
TOTAL COST (ON SOIL)			0		0	\$1,495,585	\$410,640	0.7254318728
			0					
OFF SOIL-G	NOT AFFECTED	TOTAL U	5280	200	5080	\$818,400	\$31,000	0.9621212121
		Tc-99	528	20	508	\$85,008	\$3,220	0.9621212121
OFF SOIL-A	NOT AFFECTED	TOTAL U	2988	200	2788	\$463,140	\$31,000	0.9330655957
		Tc-99	299	20	279	\$48,107	\$3,220	0.9330655957
OFF SOIL-C	AFFECTED	TOTAL U	2669	1000	1669	\$413,695	\$155,000	0.6253278381
		Tc-99	267	100	167	\$42,971	\$16,100	0.6253278381
TOTAL U (OFF-SOIL)		TOTAL U	10937	1400	9537	\$1,695,235	\$217,000	0.8719941483
TOTAL Tc-99 (OFF SOIL)		Tc-99	1094	140	954	\$176,086	\$22,540	0.8719941483
TOTAL COST (OFF-SOIL)			0		0	\$1,871,321	\$239,540	0.8719941483

TOTAL COST OF BUILDING CHARACTERIZATION SAMPLES

	<i>ANALYSIS</i>		<i>ANALYSIS</i>		<i>ANALYSIS</i>		
	RAD SAMPLES	RAD COSTS	RCRA SAMPLES	RCRA COSTS	TOTAL SAMPLES	TOTAL COSTS	Ave. RAD
TOTAL A	2864	\$735,110	1680	\$118,160	4544	\$853,270	256.67248603
TOTAL B	117	\$30,465	480	\$33,760	597	\$64,225	260.38461538
TOTAL C	42	\$11,010	240	\$16,880	282	\$27,890	262.14285714
TOTAL D	231	\$59,550	480	\$33,760	711	\$93,310	257.79220779
TOTAL BUILDINGS	3254	\$836,135	2880	\$202,560	6134	\$1,038,695	259.24804159

21-JAN-94

Building	ANALYSIS		Building Group A ANALYSIS		ANALYSIS		Ave Rad
	RAD SAMPLES	RAD COSTS	RCRA SAMPLES	RCRA COSTS	TOTAL SAMPLES	TOTAL COSTS	
ENCLOSED RAMP	51	\$13,155	120	\$8,440	171	21,546 \$21,595	@ 126 258
ENCLOSED TRUCK RAMP	80	\$20,510	120	\$8,440	200	24,950 \$28,950	@ 145 256.375
SAW FILTER	39	\$10,125	120	\$8,440	159	18,605 \$18,565	@ 117 260
RUNOUT TABLE FILTER	30	\$7,815	120	\$8,440	150	16,255 \$16,255	@ 108 261
TOOL CRIB	69	\$17,775	120	\$8,440	189	26,271 \$26,215	@ 139 261
RF6 BUILDING	627	\$160,830	120	\$8,440	747	165,569 \$169,270	@ 227 257
RF 6 BUTLER BUILDING	297	\$76,110	120	\$8,440	417	84,651 \$84,550	@ 203 256
RF3 BUTLER BUILDING	84	\$21,600	120	\$8,440	204	29,980 \$30,040	@ 147 257
NORTHWEST STORAGE	588	\$150,870	120	\$8,440	708	159,320 \$159,310	@ 225 257
HIGH BAY	471	\$120,825	120	\$8,440	591	20,492 \$129,265	@ 219 257
LOW BAY	258	\$66,150	120	\$8,440	378	74,466 \$74,590	@ 177 256
BILLET STORAGE	168	\$43,035	120	\$8,440	288	51,552 \$51,475	@ 179 256
DIEHEAD FILTER	51	\$13,155	120	\$8,440	171	21,546 \$21,595	@ 126 258
DOCK AREA	51	\$13,155	120	\$8,440	171	21,546 \$21,595	@ 126 258
TOTAL A	2864	\$735,110	1680	\$118,160	4544	\$853,270	257

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
ENCLOSED RAM	CONCRETE	Iso-U	7	\$265	\$1,855
	CONCRETE	Iso-Th	2	\$265	\$530
	CONCRETE	Tc-99	6	\$240	\$1,440
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	7	\$265	\$1,855
	METAL	Iso-Th	2	\$265	\$530
	METAL	Tc-99	6	\$240	\$1,440
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	7	\$265	\$1,855
	INS., etc..	Iso-Th	2	\$265	\$530
	INS., etc..	Tc-99	6	\$240	\$1,440
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			171		\$21,595
RAD SAMPLES			51	\$258	\$13,155
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYS	UNIT COST	COST
ENCLOSED TRUCK RAMP	CONCRETE	Iso-U	11	\$265	\$2,915
	CONCRETE	Iso-Th	4	\$265	\$1,060
	CONCRETE	Tc-99	10	\$240	\$2,400
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	11	\$265	\$2,915
	METAL	Iso-Th	4	\$265	\$1,060
	METAL	Tc-99	10	\$240	\$2,400
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc.	Iso-U	11	\$265	\$2,915
	INS., etc.	Iso-Th	4	\$265	\$1,060
	INS., etc.	Tc-99	10	\$240	\$2,400
	INS., etc.	Iso-Pu	1	\$265	\$265
	INS., etc.	Np-237	0	\$295	\$0
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			200		\$28,950
RAD SAMPLES			80	\$256	\$20,510
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANAL	UNIT COST	COST
SAW FILTER	CONCRETE	Iso-U	5	\$265	\$1,325
BUILDING	CONCRETE	Iso-Th	2	\$265	\$530
	CONCRETE	Tc-99	4	\$240	\$960
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	5	\$265	\$1,325
	METAL	Iso-Th	2	\$265	\$530
	METAL	Tc-99	4	\$240	\$960
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	5	\$265	\$1,325
	INS., etc..	Iso-Th	2	\$265	\$530
	INS., etc..	Tc-99	4	\$240	\$960
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			159		\$18,565
RAD SAMPLES			39	\$260	\$10,125
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYS	UNIT COST	COST
RUNOUT TABLE FI	CONCRETE	Iso-U	4	\$265	\$1,060
BUILDING	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	3	\$240	\$720
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	4	\$265	\$1,060
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	3	\$240	\$720
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	4	\$265	\$1,060
	INS., etc..	Iso-Th	1	\$265	\$265
	INS., etc..	Tc-99	3	\$240	\$720
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			150		\$16,255
RAD SAMPLES			30	\$261	\$7,815
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANAL	UNIT COST	COST
TOOL CRIB	CONCRETE	Iso-U	10	\$265	\$2,650
	CONCRETE	Iso-Th	3	\$265	\$795
	CONCRETE	Tc-99	8	\$240	\$1,920
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	10	\$265	\$2,650
	METAL	Iso-Th	3	\$265	\$795
	METAL	Tc-99	8	\$240	\$1,920
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	10	\$265	\$2,650
	INS., etc..	Iso-Th	3	\$265	\$795
	INS., etc..	Tc-99	8	\$240	\$1,920
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			189		\$26,215
RAD SAMPLES			69	\$258	\$17,775
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANAL	UNIT COST	COST
RF6 BUILDING	CONCRETE	Iso-U	92	\$265	\$24,380
	CONCRETE	Iso-Th	30	\$265	\$7,950
	CONCRETE	Tc-99	77	\$240	\$18,480
	CONCRETE	Iso-Pu	5	\$265	\$1,325
	CONCRETE	Np-237	5	\$295	\$1,475
	METAL	Iso-U	92	\$265	\$24,380
	METAL	Iso-Th	30	\$265	\$7,950
	METAL	Tc-99	77	\$240	\$18,480
	METAL	Iso-Pu	5	\$265	\$1,325
	METAL	Np-237	5	\$295	\$1,475
	INS., etc..	Iso-U	92	\$265	\$24,380
	INS., etc..	Iso-Th	30	\$265	\$7,950
	INS., etc..	Tc-99	77	\$240	\$18,480
	INS., etc..	Iso-Pu	5	\$265	\$1,325
	INS., etc..	Np-237	5	\$295	\$1,475
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			747		\$169,270
RAD SAMPLES			627	\$257	\$160,830
RCARA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
RF 6 BUTLER BUILDIN	CONCRETE	Iso-U	44	\$265	\$11,660
ADDITION	CONCRETE	Iso-Th	14	\$265	\$3,710
	CONCRETE	Tc-99	37	\$240	\$8,880
	CONCRETE	Iso-Pu	2	\$265	\$530
	CONCRETE	Np-237	2	\$295	\$590
	METAL	Iso-U	44	\$265	\$11,660
	METAL	Iso-Th	14	\$265	\$3,710
	METAL	Tc-99	37	\$240	\$8,880
	METAL	Iso-Pu	2	\$265	\$530
	METAL	Np-237	2	\$295	\$590
	INS., etc..	Iso-U	44	\$265	\$11,660
	INS., etc..	Iso-Th	14	\$265	\$3,710
	INS., etc..	Tc-99	37	\$240	\$8,880
	INS., etc..	Iso-Pu	2	\$265	\$530
	INS., etc..	Np-237	2	\$295	\$590
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			417		\$84,550
RAD SAMPLES			297	\$256	\$76,110
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
RF3 BUTLER BUILD	CONCRETE	Iso-U	12	\$265	\$3,180
	CONCRETE	Iso-Th	4	\$265	\$1,060
	CONCRETE	Tc-99	10	\$240	\$2,400
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	12	\$265	\$3,180
	METAL	Iso-Th	4	\$265	\$1,060
	METAL	Tc-99	10	\$240	\$2,400
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	12	\$265	\$3,180
	INS., etc..	Iso-Th	4	\$265	\$1,060
	INS., etc..	Tc-99	10	\$240	\$2,400
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			204		\$30,040
RAD SAMPLES			84	\$257	\$21,600
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
NORTHWEST STORA	CONCRETE	Iso-U	86	\$265	\$22,790
BUILDING	CONCRETE	Iso-Th	28	\$265	\$7,420
	CONCRETE	Tc-99	72	\$240	\$17,280
	CONCRETE	Iso-Pu	5	\$265	\$1,325
	CONCRETE	Np-237	5	\$295	\$1,475
	METAL	Iso-U	86	\$265	\$22,790
	METAL	Iso-Th	28	\$265	\$7,420
	METAL	Tc-99	72	\$240	\$17,280
	METAL	Iso-Pu	5	\$265	\$1,325
	METAL	Np-237	5	\$295	\$1,475
	INS., etc..	Iso-U	86	\$265	\$22,790
	INS., etc..	Iso-Th	28	\$265	\$7,420
	INS., etc..	Tc-99	72	\$240	\$17,280
	INS., etc..	Iso-Pu	5	\$265	\$1,325
	INS., etc..	Np-237	5	\$295	\$1,475
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			708		\$159,310
RAD SAMPLES			588	\$257	\$150,870
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
HIGH BAY	CONCRETE	Iso-U	69	\$265	\$18,285
	CONCRETE	Iso-Th	22	\$265	\$5,830
	CONCRETE	Tc-99	58	\$240	\$13,920
	CONCRETE	Iso-Pu	4	\$265	\$1,060
	CONCRETE	Np-237	4	\$295	\$1,180
	METAL	Iso-U	69	\$265	\$18,285
	METAL	Iso-Th	22	\$265	\$5,830
	METAL	Tc-99	58	\$240	\$13,920
	METAL	Iso-Pu	4	\$265	\$1,060
	METAL	Np-237	4	\$295	\$1,180
	INS., etc..	Iso-U	69	\$265	\$18,285
	INS., etc..	Iso-Th	22	\$265	\$5,830
	INS., etc..	Tc-99	58	\$240	\$13,920
	INS., etc..	Iso-Pu	4	\$265	\$1,060
	INS., etc..	Np-237	4	\$295	\$1,180
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			591		\$129,265
RAD SAMPLES			471	\$257	\$120,825
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
LOW BAY	CONCRETE	Iso-U	38	\$265	\$10,070
	CONCRETE	Iso-Th	12	\$265	\$3,180
	CONCRETE	Tc-99	32	\$240	\$7,680
	CONCRETE	Iso-Pu	2	\$265	\$530
	CONCRETE	Np-237	2	\$295	\$590
	METAL	Iso-U	38	\$265	\$10,070
	METAL	Iso-Th	12	\$265	\$3,180
	METAL	Tc-99	32	\$240	\$7,680
	METAL	Iso-Pu	2	\$265	\$530
	METAL	Np-237	2	\$295	\$590
	INS., etc..	Iso-U	38	\$265	\$10,070
	INS., etc..	Iso-Th	12	\$265	\$3,180
	INS., etc..	Tc-99	32	\$240	\$7,680
	INS., etc..	Iso-Pu	2	\$265	\$530
	INS., etc..	Np-237	2	\$295	\$590
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			378		\$74,590
RAD SAMPLES			258	\$256	\$66,150
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
BILLET STORAG	CONCRETE	Iso-U	25	\$265	\$6,625
WAREHOUSE	CONCRETE	Iso-Th	8	\$265	\$2,120
	CONCRETE	Tc-99	21	\$240	\$5,040
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	25	\$265	\$6,625
	METAL	Iso-Th	8	\$265	\$2,120
	METAL	Tc-99	21	\$240	\$5,040
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	25	\$265	\$6,625
	INS., etc..	Iso-Th	8	\$265	\$2,120
	INS., etc..	Tc-99	21	\$240	\$5,040
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			288		\$51,475
RAD SAMPLES			166		\$43,035
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
DIEHEAD FILT	CONCRETE	Iso-U	7	\$265	\$1,855
BUILDING	CONCRETE	Iso-Th	2	\$265	\$530
	CONCRETE	Tc-99	6	\$240	\$1,440
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	7	\$265	\$1,855
	METAL	Iso-Th	2	\$265	\$530
	METAL	Tc-99	6	\$240	\$1,440
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	7	\$265	\$1,855
	INS., etc..	Iso-Th	2	\$265	\$530
	INS., etc..	Tc-99	6	\$240	\$1,440
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			171		\$21,595
RAD SAMPLES			51	\$258	\$13,155
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYS	UNIT COST	COST
DOCK AREA	CONCRETE	Iso-U	7	\$265	\$1,855
	CONCRETE	Iso-Th	2	\$265	\$530
	CONCRETE	Tc-99	6	\$240	\$1,440
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	7	\$265	\$1,855
	METAL	Iso-Th	2	\$265	\$530
	METAL	Tc-99	6	\$240	\$1,440
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	7	\$265	\$1,855
	INS., etc..	Iso-Th	2	\$265	\$530
	INS., etc..	Tc-99	6	\$240	\$1,440
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			171		\$21,595
RAD SAMPLES			51	\$258	\$13,155
RCRA SAMPLES			120	\$70	\$8,440

BUILDING GROUP B

	RAD SAMPLES	RAD COST	RCRA SAMPLES	RCRA COSTS	TOTAL SAMPLE	TOTAL COSTS	AVERAGE
SEWAGE DISPOSAL	15	\$3,990	120	\$8,440	135	\$12,430	266
COMPRESSOR ROOM	15	\$3,990	120	\$8,440	135	\$12,430	266
SUBSTATION	21	\$5,505	120	\$8,440	141	\$13,945	262.14285714
WASTEWATER	66	\$16,980	120	\$8,440	186	\$25,420	257.27272727
TOTAL B	117	\$30,465	480	\$33,760	597	\$64,225	260.38461538

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYSES	UNIT COST	COST
SEWAGE DISPOSAL	CONCRETE	Iso-U	1	\$265	\$265
PLANT	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	1	\$240	\$240
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	1	\$265	\$265
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	1	\$240	\$240
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	1	\$265	\$265
	INS., etc..	Iso-Th	1	\$265	\$265
	INS., etc..	Tc-99	1	\$240	\$240
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			135		\$12,430
RAD SAMPLES			15	\$266	\$3,990
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYSES	UNIT COST	COST
COMPRESSOR ROOM	CONCRETE	Iso-U	1	\$265	\$265
	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	1	\$240	\$240
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	1	\$265	\$265
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	1	\$240	\$240
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	1	\$265	\$265
	INS., etc..	Iso-Th	1	\$265	\$265
	INS., etc..	Tc-99	1	\$240	\$240
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			135		\$12,430
RAD SAMPLES			15	\$266	\$3,990
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYS	UNIT COST	COST
SUBSTATION	CONCRETE	Iso-U	2	\$265	\$530
	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	2	\$240	\$480
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	2	\$265	\$530
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	2	\$240	\$480
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc.	Iso-U	2	\$265	\$530
	INS., etc.	Iso-Th	1	\$265	\$265
	INS., etc.	Tc-99	2	\$240	\$480
	INS., etc.	Iso-Pu	1	\$265	\$265
	INS., etc.	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			141		\$13,945
RAD SAMPLES			21	\$262	\$5,505
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYS	UNIT COST	COST
WASTEWATER	CONCRETE	Iso-U	9	\$265	\$2,385
TREATMENT PLANT	CONCRETE	Iso-Th	3	\$265	\$795
	CONCRETE	Tc-99	8	\$240	\$1,920
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	9	\$265	\$2,385
	METAL	Iso-Th	3	\$265	\$795
	METAL	Tc-99	8	\$240	\$1,920
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	9	\$265	\$2,385
	INS., etc..	Iso-Th	3	\$265	\$795
	INS., etc..	Tc-99	8	\$240	\$1,920
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			186		\$25,420
RAD SAMPLES			66	\$257	\$16,980
RCRA SAMPLES			120	\$70	\$8,440

TOTAL BUILDING GROUP C

BUILDING	RAD SAMPLES	RAD COSST	RCRA SAMPLES	RCRA COST	TOTAL SAMPLES	TOTAL COST	RAD AVERAGE
EMERGENCY EQUIPMENT	15	\$3,990	120	\$8,440	135	\$12,430	266
RCRA STORAGE	27	\$7,020	120	\$8,440	147	\$15,460	260
TOTAL C	42	\$11,010	240	\$16,880	282	\$27,890	262.1428571429

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANALYSE	UNIT COST	COST
MERGENCY EQUIPMEN	CONCRETE	Iso-U	1	\$265	\$265
STORAGE BUILDING	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	1	\$240	\$240
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	1	\$265	\$265
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	1	\$240	\$240
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	1	\$265	\$265
	INS., etc..	Iso-Th	1	\$265	\$265
	INS., etc..	Tc-99	1	\$240	\$240
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			135		\$12,430
RAD SAMPLES			15	\$266	\$3,990
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETER	NO. OF ANAL	UNIT COST	COST
RCRA STORAGE	CONCRETE	Iso-U	3	\$265	\$795
BUILDING	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	3	\$240	\$720
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	3	\$265	\$795
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	3	\$240	\$720
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	3	\$265	\$795
	INS., etc..	Iso-Th	1	\$265	\$265
	INS., etc..	Tc-99	3	\$240	\$720
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			147		\$15,460
RAD SAMPLES			27	\$260	\$7,020
RCRA SAMPLES			120	\$70	\$8,440

BUILDING GROUP D

BUILDING	RAD SAMPLES	RAD COSTS	RCRA SAMPLES	RCRA COSTS	TOTAL SAMPLES	TOTAL COSTS	RAD AVERAGE
ES&H BUILDING	45	\$11,640	120	\$8,440	165	\$20,080	258.6666667
GUARDHOUSE	15	\$3,990	120	\$8,440	135	\$12,430	266
MODULAR OFFICE	99	\$25,425	120	\$8,440	219	\$33,865	256.81818182
MODULAR LAB	72	\$18,495	120	\$8,440	192	\$26,935	256.875
TOTAL D	231	\$59,550	480	\$33,760	711	\$93,310	257.79220779

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYSES	UNIT COST	COST
ES&H BUILDING	CONCRETE	Iso-U	6	\$265	\$1,590
	CONCRETE	Iso-Th	2	\$265	\$530
	CONCRETE	Tc-99	5	\$240	\$1,200
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	6	\$265	\$1,590
	METAL	Iso-Th	2	\$265	\$530
	METAL	Tc-99	5	\$240	\$1,200
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	6	\$265	\$1,590
	INS., etc..	Iso-Th	2	\$265	\$530
	INS., etc..	Tc-99	5	\$240	\$1,200
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			165		\$20,080
RAD SAMPLES			45	\$259	\$11,640
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYS	UNIT COST	COST
GUARDHOUSE	CONCRETE	Iso-U	1	\$265	\$265
	CONCRETE	Iso-Th	1	\$265	\$265
	CONCRETE	Tc-99	1	\$240	\$240
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	1	\$265	\$265
	METAL	Iso-Th	1	\$265	\$265
	METAL	Tc-99	1	\$240	\$240
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc..	Iso-U	1	\$265	\$265
	INS., etc..	Iso-Th	1	\$265	\$265
	INS., etc..	Tc-99	1	\$240	\$240
	INS., etc..	Iso-Pu	1	\$265	\$265
	INS., etc..	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			135		\$12,430
RAD SAMPLES			15	\$266	\$3,990
RCRA SAMPLES			120	\$70	\$8,440

DESIGN ENGINEERING ANALYSIS
 [Based From the September Baseline Submittal]
 RECAP ANALYSIS

Date: 29--Jan--94

DESCRIPTION	HOURS	DIRECT COST	CONTGY	TOTALS
A/E Services, Parsons Engineering	36,900	2,042,800	352,316	2,395,116
S/C Engineering Support		1,468,217	303,328	1,771,545
TOTALS	36,900	3,511,017	655,645	4,166,662
PARSON ENGINEERING DISTRIBUTION				
DESCRIPTION	HOURS	DIRECT COST	CONTGY	TOTALS
Program Management	2,600	144,000	15,365	159,365
Project Management	12,800	708,000	75,544	783,544
Technology Development	7,600	421,700	113,859	535,559
Technical Support	13,900	769,100	147,549	916,649
TOTALS	36,900	2,042,800	352,316	2,395,116

NOTE: The Remediation Proposal (Rev. 3) planned for delivery to RMIDPO uses subcontractor incorporates a reduction in the factor used to calculate S/C Engineering costs from 6 percent to 4 percent. The assumption is that RMI will provide certain Engineering and Design services "In-House" thus reducing the expected cost. It is felt that RMI Engineering labor cost per hour is less than a subcontractor's labor cost given expected per diem, and S/C administration, overhead and profit.

DESIGN ENGINEERING ANALYSIS
 [Based From the September Baseline Submittal]

Date: 29-Jan-94

WBS	DESCRIPTION	HOURS	DIRECT COST	CONTGY	TOTALS	
11115	Technology Devlpmnt, Phase I/Parsons	5,000	277,700	✓	74,979	352,679
	Technology Devlpmnt, Phase II/Parsons	2,600	144,000	✓	38,880	182,880
	SUBTOTALS	7,600	421,700	✓	113,859	535,559
11112	Tech Suppt, Prog Mgt/Parsons	2,600	144,000	✓	15,365	159,365
	Tech Suppt, Proj Mgt/Parsons	12,800	708,000	✓	75,544	783,544
	SUBTOTALS	15,400	852,000	✓	90,908	942,908
1121	Tech Suppt, Site Prep/Parsons	12,700	702,700	✓	131,405	834,105
	Site Prep, S/C Engineering @ 6%		131,691		24,626	156,317
	SUBTOTALS	12,700	834,391		156,031	990,422
11221	Tech Suppt, BG "A" Prep/Parsons	270	15,000	✓	3,756	18,756
	Site Prep, S/C Engineering @ 6%		663,891		118,173	782,064
	SUBTOTALS	270	678,891		121,929	800,820
1123	Tech Suppt, BG "B" Prep/Parsons	145	8,000	✓	2,400	10,400
	Site Prep, S/C Engineering @ 6%		36,674		5,738	42,432
	SUBTOTALS	145	44,674		8,158	52,832
1124	Tech Suppt, BG "C" Prep/Parsons	115	6,400	✓	1,542	7,942
	Site Prep, S/C Engineering @ 6%		3,522		796	4,318
	SUBTOTALS	115	9,922		2,338	12,260
1125	Tech Suppt, BG "D" Prep/Parsons	90	5,000	✓	1,195	6,195
	Site Prep, S/C Engineering @ 6%		3,824		673	4,497
	SUBTOTALS	90	8,824		1,868	10,692
1131	Tech Suppt, On-Site Soils/Parsons	145	8,000	✓	2,150	10,150
	Site Prep, S/C Engineering @ 6%		543,420		136,942	680,362
	SUBTOTALS	145	551,420		139,092	690,512
1132	Tech Suppt, Off-Site Soils/Parsons	145	8,000	✓	1,901	9,901
	Site Prep, S/C Engineering @ 6%		39,679		8,531	48,210
	SUBTOTALS	145	47,679		10,432	58,111
1141	Tech Suppt, CAMU/Parsons	145	8,000		1,963	9,963
	Site Prep, S/C Engineering @ 6%		45,516		7,829	53,345
	SUBTOTALS	145	53,516		9,792	63,308
1142	Tech Suppt, Site-Wide Grndwtr/Parsons	145	8,000	✓	1,237	9,237
	Site Prep, S/C Engineering @ 6%		0		0	0
	SUBTOTALS	145	8,000		1,237	9,237

(ATTACHMENT "K" to the Estimate Basis Document)

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYS	UNIT COST	COST
MODULAR LAB	CONCRETE	Iso-U	10	\$265	\$2,650
	CONCRETE	Iso-Th	3	\$265	\$795
	CONCRETE	Tc-99	9	\$240	\$2,160
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	10	\$265	\$2,650
	METAL	Iso-Th	3	\$265	\$795
	METAL	Tc-99	9	\$240	\$2,160
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc.	Iso-U	10	\$265	\$2,650
	INS., etc.	Iso-Th	3	\$265	\$795
	INS., etc.	Tc-99	9	\$240	\$2,160
	INS., etc.	Iso-Pu	1	\$265	\$265
	INS., etc.	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			192		\$26,935
RAD SAMPLES			72	\$257	\$18,495
RCRA SAMPLES			120	\$70	\$8,440

COSTS FOR ANALYSIS OF FACILITY CHARACTERIZATION SAMPLES

BUILDING	MATRIX	PARAMETERS	NO. OF ANALYSES	UNIT COST	COST
MODULAR OFFICE	CONCRETE	Iso-U	14	\$265	\$3,710
	CONCRETE	Iso-Th	5	\$265	\$1,325
	CONCRETE	Tc-99	12	\$240	\$2,880
	CONCRETE	Iso-Pu	1	\$265	\$265
	CONCRETE	Np-237	1	\$295	\$295
	METAL	Iso-U	14	\$265	\$3,710
	METAL	Iso-Th	5	\$265	\$1,325
	METAL	Tc-99	12	\$240	\$2,880
	METAL	Iso-Pu	1	\$265	\$265
	METAL	Np-237	1	\$295	\$295
	INS., etc.	Iso-U	14	\$265	\$3,710
	INS., etc.	Iso-Th	5	\$265	\$1,325
	INS., etc.	Tc-99	12	\$240	\$2,880
	INS., etc.	Iso-Pu	1	\$265	\$265
	INS., etc.	Np-237	1	\$295	\$295
	RCRA	CYANIDE	10	\$69	\$690
	RCRA	SULFIDE	10	\$35	\$350
	RCRA	ARSENIC	10	\$35	\$350
	RCRA	BARIUM	10	\$35	\$350
	RCRA	CADMIUM	10	\$35	\$350
	RCRA	MERCURY	10	\$35	\$350
	RCRA	SELENIUM	10	\$35	\$350
	RCRA	LEAD	10	\$35	\$350
	RCRA	CHROMIUM	10	\$35	\$350
	RCRA	SILVER	10	\$35	\$350
	RCRA	VOA	10	\$345	\$3,450
	RCRA	PCB'S	10	\$115	\$1,150
TOTAL			219		\$33,865
RAD SAMPLES			99	\$257	\$25,425
RCRA SAMPLES			120	\$70	\$8,440

RMI ENVIRONMENTAL SERVICES

RE: RMI Decommissioning Project

RADIOLOGICAL CONDITIONS FACTOR WORKSHEET

(Adjustments to Material and Labor Estimates)

10-FEB-94

By: C. Kinney

fn=rzfactor.wk3

Tag	LABOR Unit Factor (Factor for Adjusted Labor Units)	MATERIAL Adjmt (Factor of Direct Material Dollars)	EQUIPMT Adjmt (Factor of Burdened Labor Dollars)	Title and Description of Adjustment Category
				<u>RZ-1 (Level D) Radiological Conditions:</u>
	10.0%	0.0%	0.0%	Industry Accepted Standard Efficiency Loss for RZ-1 conditions
	0.2%	0.0%	0.0%	Annual Respirator Fitting & Testing = (2.0 hrs medical + 2.0 hrs fitting) (1,860 manhours per year)
	10.4%	0.0%	0.0%	RZ-1 Protective clothing dressout = (15 minutes dress + 10 minutes undress) X 2 changes per day (8 hour work day X 60 minutes per hour)
	6.3%	0.0%	0.0%	Showering time after working in RZ-1 conditions = (30 minutes to shower once daily) (8 hour work day X 60 minutes per hour)
	0.0%	0.0%	14.4%	Costs for Tyvek suit, hood, boot covers, and gloves = ($\$11.50 \times 2$ changes per day) (8 hours per day X \$20 average hourly wage)
	4.2%	0.0%	0.0%	Lost time travel to work area & monitoring = (5 minutes travel each way X 4 ways) (8 hour work day X 60 minutes per hour)
	3.1%	0.0%	0.0%	Routine HP Testing & Inspection Delays = (15 minutes for HP permits, testing, and inspection daily) (8 hour work day X 60 minutes per hour)
01	===== 34.2%	===== 0.0%	===== 14.4%	TOTALS for RZ-1 Radiological Conditions

(ATTACHMENT "L" to the Estimate Basis Document)

Col A Column B Column C Col D Column E Column F Column G Column H Column I

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

10-FEB-94
(Date)

WBS NO.: (WBS Number)
DESCRIPTION: (WBS Description - type of work)
(WBS - location of work)

DESCRIPTION	MHR	LABOR	MATERIAL	RMI & SUBS	TOTAL COST
DIRECT COSTS					
1 (Location of work)	0,000	0,000	0,000	0,000	@sum(f13.h13)
2					@sum(f14.h14)
3					@sum(f15.h15)
4					@sum(f16.h16)
5					@sum(f17.h17)
6					@sum(f18.h18)
7					@sum(f19.h19)
8					@sum(f20.h20)
9					@sum(f21.h21)
10					@sum(f22.h22)
11					@sum(f23.h23)
12					@sum(f24.h24)
SUBTOTAL DIRECTS	@sum(e13.e24)	@sum(f13.f24)	@sum(g13.g24)	@sum(h13.h24)	@sum(f25.h25)
14 RAD. CONDITIONS FACTOR	00.0%	(e25*d26)	(f25*d26)		@sum(f26.h26)
15 HP & SAFETY TRAINING FACTOR	00.0%	(e25*d27)	(f25*d27)		@sum(f27.h27)
16 JOB CONDITION FACTOR	00.0%	(e25*d28)	(f25*d28)		@sum(f28.h28)
17 SUBTOTAL		@sum(e25.e28)	@sum(f25.f28)	@sum(g25.g28)	@sum(h25.h28)
18 CONSTRUCTION EQUIPMENT	00.0%	(f30/(f25/e25))	(i30*0.07)	(i30*0.93)	(d30*f29)
19 SUBTOTAL		@sum(e29.e30)	@sum(f29.f30)	@sum(g29.g30)	@sum(h29.h30)
20 CONSTRUCTION SUPPORT COSTS	00.0%	(e31*d32)	(e32*(f25/e25))		@sum(f32.h32)
21 SUBTOTAL		@sum(e31.e32)	@sum(f31.f32)	@sum(g31.g32)	@sum(h31.h32)
22 CRAFT SUPERVISION	00.0%	(e33*d34)	(e34*(1+(f25/e25)))		@sum(f34.h34)
23 SUBTOTAL		@sum(e33.e34)	@sum(f33.f34)	@sum(g33.g34)	@sum(h33.h34)
24 LABOR FRINGES/PAYROLL TAXES	00.0%		(f35*d36)		@sum(f36.h36)
25 SALES TAX	00.0%			(g35*d37)	@sum(f37.h37)
26 SUBTOTAL		@sum(e35.e37)	@sum(f35.f37)	@sum(g35.g37)	@sum(h35.h37)
27 SUBTIER SUBCONTRACTOR OH/FEE	00.0%				(d39*(i38-h38)
28 SUBTOTAL					@sum(i38.i39)
29 SUBCONTRACTOR ADMIN OF SUBS	00.0%				(d41*(i40-h38)
30 SUBTOTAL					@sum(i40.i41)
31 RMI ENGINEERING	00.0%				(d43*(i42-h38)
32 SUBTOTAL					@sum(i42.i43)
33 SUBCONTRACTOR OVHD & PROFIT	00.0%				(d45*(i44-h38)
34 SUBTOTAL					@sum(i44.i45)
35 FIELD WORK ADMINISTRATION	00.0%				(d47*(i46-h38)
36 SUBTOTAL					@sum(i46.i47)
37 ALL RISK INSURANCE	00.0%				(d49*(i48-h38)
38 SUBTOTAL					@sum(i48.i49)
39 PERFORMANCE & PAYMENT BOND	00.0%				(d51*(i50-h38)
40 SUBTOTAL WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					@sum(i50.i51)

(electronic file name)

Col A Column B Column C Col D Column E Column F Column G Column H Column I

(ATTACHMENT "M" to the Estimate Basis Document)

PROJECT MANAGEMENT

1.1.1.1

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.1
DESCRIPTION: PROJECT MANAGEMENT

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PROJECT CONTROLS	0	0	0	12,900	12,900
2	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	1,819,500	1,819,500
3	QUALITY ASSURANCE	(See separate Staffing Task Analysis)				
4	ADMIN & TRAINING	0	0	0	1,599,968	1,599,968
5	TECHNOLOGY DEVELOPMENT (See A/E Task Analysis)	0	0	0	421,600	421,600
6	Rounding to the nearest \$100				32	32
7						
8						
9						
10						
11	RMI Staffing Plan - Labor	(See separate Staffing Task Analysis)				
12	RMI Staffing Plan - Supplies	(See separate Staffing Task Analysis)				
13	SUBTOTAL DIRECTS	0	0	0	3,854,000	3,854,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	3,854,000	3,854,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	3,854,000	3,854,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	3,854,000	3,854,000
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	3,854,000	3,854,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL	0	0	0	3,854,000	3,854,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					3,854,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					3,854,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					3,854,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					3,854,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					3,854,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					3,854,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					3,854,000

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.1.1
DESCRIPTION: PROJECT CONTROLS
PROJECT MANAGEMENT

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	Support Subcontract to Ebasco	0	0	0	12,900	12,900
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	12,900	12,900
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	12,900	12,900
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	12,900	12,900
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	12,900	12,900
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	12,900	12,900
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	12,900	12,900
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					12,900
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					12,900
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					12,900
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					12,900
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					12,900
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					12,900
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					12,900

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.1.4
DESCRIPTION: ADMIN & TRAINING
PROJECT MANAGEMENT

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	ADMIN & TRAINING	0	0	0	1,599,968	1,599,968
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,599,968	1,599,968
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,599,968	1,599,968
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,599,968	1,599,968
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,599,968	1,599,968
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,599,968	1,599,968
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	1,599,968	1,599,968
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,599,968
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,599,968
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,599,968
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,599,968
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					1,599,968
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,599,968
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,599,968

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:51 PM
 FILE NAME RMIFEB94.PEE

PROJECT MANAGEMENT
 WBS CODE 1.1.1.1.4.
 ADMINISTRATION & TRAINING

QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		RMI & OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

Confined Space Training	384	FTE							680	261,120	261,120
36 Persons per year											
Cost Basis: Emilcott Associates, Inc											
CPR/First Aid Training	624	FTE							66	40,997	40,997
70 Persons once every 2 years											
Cost Basis: PO with American Red Cross & Sherman Werstler											
OSHA 1910.332 Elec Sfty Traing	151	FTE							680	102,680	102,680
10 Persons per year											
Cost Basis: National Seminars, Des Plains, Illinois											
OSHA 1910.120 Hazardous Waste	361	FTE							625	297,825	297,825
Operations & Emergency Response Training - 40 Hr Initial											
24 Persons per year											
Cost Basis: Findlay University, Findlay, Ohio											
OSHA 1910.120 Hazardous Waste	659	FTE							225	148,275	148,275
Operations & Emergency Response Training - 8 Hr Refresher											
50 Persons per year											
Cost Basis: Findlay University, Findlay, Ohio											
Fire Extinguisher Use Training	1,059	FTE							3	3,654	3,654
75 Persons per year											
Cost Basis: PO with Sherman Werstler											
Radiation Worker Safety Traing	990	FTE							188	185,674	185,674
75 Persons per year											
Health Physics Training	171	FTE							563	96,213	96,213
13 Persons per year											
RCRA/SPCC/Hazard Communication	734	FTE							73	53,720	53,720
52 Persons per year											
Cost Basis: Quotation from General Physics Corporation											
Asbestos Remediation Initial	40	FTE							735	29,400	29,400
Training (for Oversight of Licenced Subcontractor)											
7 Persons, 6 times (less absentees)											
Cost Basis: University of Cincinnati											
Asbestos Remediation Refresher	79	FTE							190	15,010	15,010
Training											
6 Persons per year											
Cost Basis: University of Cincinnati											
Quality Mgmt Training Initial	203	FTE							1,800	365,400	365,400
36 Persons, 6 times (less absentees)											
Cost Basis: QA Supervisor Douglas Bibler											

TOTAL 0 0 0 1,599,968 \$ 1,599,968

SITE SERVICES

1.1.1.2

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.2
DESCRIPTION: SITE SERVICES

11-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHR	LABOR	MATERIAL		
DIRECT COSTS					
1 SURVEILLANCE & MAINTENANCE	0	0	0	5,251,600	5,251,600
2 EQUIPMENT PROCUREMENT	0	0	0	8,057,025	8,057,025
3 UTILITIES & MISCELLANEOUS	0	0	0	6,085,970	6,085,970
4 SAFEGUARDS & SECURITY	(See separate Staffing Task Analysis)				
5 Rounding				(95)	0
6					
7					
8					
9					
10					
11 RMI Staffing Plan - Labor	(See separate Staffing Task Analysis)				
12 RMI Staffing Plan - Supplies	(See separate Staffing Task Analysis)				
13 SUBTOTAL DIRECTS	0	0	0	19,394,500	19,394,595
14 HAZARDOUS MATERIAL PRODUCTIVITY	0.0%	0	0		0
15 SUBTOTAL		0	0	19,394,500	19,394,500
16 HEALTH PHYSICS/SAFETY/TRAINING	0.0%	0	0		0
17 SUBTOTAL		0	0	19,394,500	19,394,500
18 JOB CONDITION FACTORS	0.0%	0	0		0
19 SUBTOTAL		0	0	19,394,500	19,394,500
20 CRAFT SUPERVISION	%	0	0		0
21 SUBTOTAL		0	0	19,394,500	19,394,500
22 CONSTRUCTION EQUIPMENT	0.0%	0	0		0
23 TOTAL DIRECTS		0	0	19,394,500	19,394,500
24 CONSTRUCTION SUPPORT COSTS	0.0%				0
25 SUBTOTAL		0	0	19,394,500	19,394,500
26 LABOR FRINGES/PAYROLL TAXES	0.0%				0
27 SALES TAX	0.0%				0
28 SUBTOTAL		0	0	19,394,500	19,394,500
29 SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
30 SUBTOTAL					19,394,500
31 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
32 SUBTOTAL					19,394,500
33 SUBCONTRACTOR ENGINEERING	0.0%				0
34 SUBTOTAL					19,394,500
35 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
36 SUBTOTAL					19,394,500
37 ALL RISK INSURANCE	0.0%				0
38 SUBTOTAL					19,394,500
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 SUBTOTAL WITHOUT G&A, CONTINGENCY, FEE, OR ESCALATION					19,394,500

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.2.1
DESCRIPTION: SURVEILLANCE & MAINTENANCE

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	SITE MAINTENANCE	0	0	0	206,064	206,064
2	ENVIRONMENTAL MONITORING	0	0	0	5,045,536	5,045,536
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	5,251,600	5,251,600
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	5,251,600	5,251,600
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	5,251,600	5,251,600
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	5,251,600	5,251,600
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	5,251,600	5,251,600
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	5,251,600	5,251,600
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					5,251,600
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					5,251,600
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					5,251,600
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					5,251,600
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					5,251,600
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					5,251,600
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					5,251,600

fm=1112a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PES1
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:51 pm
 FILE NAME RMI FEB94.PEE

WBS LEVEL 6 DETAIL

SITE SERVICES		SUB CONTRACTOR						RMI &		
WBS CODE 1.1.1.2.1.1		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL
SURVEILLANCE & MAINTENANCE	QUANTITY UM	UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Parking Lot Maintenance	1 ls							86,064		86,064
2" asphalt parking @ 10,200 sy w/ptg & primer (repair/repave twice)										
Building (Roof) Maintenance	1 ls							120,000		120,000
Roofing, flashings, gutters & downspouts 25,600 sf every 16 years (one time only)										
TOTAL			0			0		0		206,064 \$

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:51 PM
 FILE NAME RMIFEB94.PEE

WBS LEVEL 6 DETAIL

SITE SERVICES		SUB CONTRACTOR						RMI & OTHER COSTS			
WBS CODE 1.1.1.2.1.2		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
SURVEILLANCE & MAINTENANCE		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	
ENVIRONMENTAL MONITORING		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	
Annual Lab Analysis Fee	16 yr								315,346	5,045,536	5,045,536
for Environmental Monitoring											
Based on an annual sampling requiring 4,288 analysis per year at an off-site lab											
Sample Containers & Shipping	19 yr										
for Environmental Monitoring											
Based on an annual sampling requiring 2,500 sample containers per year allowance @ \$50 cost each											
TOTAL										5,045,536	\$ 5,045,536

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.2.2
DESCRIPTION: EQUIPMENT PROCUREMENT

11-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRs	LABOR	MATERIAL		
DIRECT COSTS					
1 EQUIPMENT PROCUREMENT					
2 Procurement Plan		(See separate Staffing Task Analysis)			
3 Major Site-Wide Equipment Acquisitions	0	0	0	3,129,233	3,129,233
4 (Item deleted)					
5 Lab Equipment	0	0	0	2,124,609	2,124,609
6 Other Equipment Procurement	0	0	0	2,803,183	2,803,183
7					
8					
9					
10					
11					
12					
13 SUBTOTAL DIRECTS	0	0	0	8,057,025	8,057,025
14 RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15 HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16 JOB CONDITION FACTOR	0.0%	0	0		0
17 SUBTOTAL		0	0	8,057,025	8,057,025
18 CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19 SUBTOTAL		0	0	8,057,025	8,057,025
20 CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21 SUBTOTAL		0	0	8,057,025	8,057,025
22 CRAFT SUPERVISION	0.0%	0	0		0
23 SUBTOTAL		0	0	8,057,025	8,057,025
24 LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25 SALES TAX	0.0%			0	0
26 SUBTOTAL		0	0	8,057,025	8,057,025
27 SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28 SUBTOTAL					8,057,025
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30 SUBTOTAL					8,057,025
31 RMI ENGINEERING	0.0%				0
32 SUBTOTAL					8,057,025
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					8,057,025
35 FIELD WORK ADMINISTRATION	0.0%				0
36 SUBTOTAL					8,057,025
37 ALL RISK INSURANCE	0.0%				0
38 SUBTOTAL					8,057,025
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,057,025

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:51 pm
 FILE NAME RMIFEB94.PEE

SITE SERVICES

WBS CODE 1.1.1.2.3.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	SUB CONTRACTOR									TOTAL COST
		MAN HOURS		LABOR		MATERIAL		RMI & OTHER CCJIS			
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST

3.2 MAJOR SITE-WIDE EQUIPMENT ACQUISITIONS

Sound Level Meter & Calibraton	12	yr							323	3,876	3,876
Annual rate based on an 8-year life span for 2 each											
Noise Dosimeters	12	yr							262	3,144	3,144
Annual rate based on an 8-year life span for 2 each											
Photo Ionization Det w/Cal Gas	12	yr							1,004	12,048	12,048
Annual rate based on an 8-year life span for 2 each											
Sample Pump w/Detection Tubes	12	yr							122	1,464	1,464
Annual rate based on an 8-year life span for 1 each											
Heat Stress Monitor	12	yr							289	3,468	3,468
Annual rate based on an 8-year life span for 1 each											
50 Ton Hydraulic Boom Truck	15	yr							22,643	339,645	339,645
Annual rate based on a 10-year life span for one each											
Portable Wastewtr Trnsfr Stn	20	yr							19,806	396,120	396,120
Package unit, FOB jobsite, complete in-place per FAUVER Filtration Division, Douglas Kolf, 513/247-9900, includes Pipe & Electrical, Annual rate based on 1 every 20 years											
Aerial Work Platform	12	yr							4,015	48,180	48,180
Lease/purchase over 5 years											
Scissor Platform Lifts	12	yr							4,461	53,532	53,532
Annual rate based on an 8-year life span for one each											
Pickup Truck W/Snow Plow	10	yr							1,338	13,380	13,380
Annual rate based on a 10-year span for one each											
Station Wagon or Mini-Van		yr							4,000		
Annual rate based on a 5-year lease											
10,000# Forklift	10	yr							17,397	173,970	173,970
Purchase two initially, then replace all three in 8 yrs											
Small Portable Generator	12	yr							72	864	864
Annual rate based on an 8-year life span for one each											
Box Scales	15	yr							76	1,140	1,140
Annual rate based on a 10-year life span for one each											
Stake Body Flatbed Truck	10	yr							3,212	32,120	32,120
Annual rate based on a 5 year lease											
Birdcages for Monitoring Equip	12	yr							2,007	24,084	24,084
Annual rate based on an 8-year life span for 6 each											
Ratemeter/Scaler w/ GM Pancake	12	yr							1,466	17,592	17,592
Detector, Catalog, Portable Radiation Survey Equipment Annual rate based on an 8-year life span for 10 each											
Ratemeter/Scaler w/lrg Area	12	yr							2,035	24,420	24,420
(100 cm) Detector, Catalog, Portable Radiation Survey Equipment Annual rate based on an 8-year life span for 10 each											

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:51 pm
 FILE NAME RMI FEB 94.PEE

SITE SERVICES

SUB CONTRACTOR

RMI &

WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.2 MAJOR SITE-WIDE EQUIPMENT ACQUISITIONS

Ratemeter/Scaler w/lrg Area	12	yr							2,119	25,428	25,428
(>100cm) Detector, Catalog, Portable Radiation Survey Equipment Annual rate based on an 8-year life span for 10 each											
Ratemeter/Scaler w/Small Area	12	yr							1,667	20,004	20,004
(<1" diameter) Catalog, Portable Radiation Survey Equipment Annual rate based on an 8-year life span for 10 each											
Ratemeter/Scaler W/ GM End	12	yr							1,271	15,252	15,252
Window Detector, Catalog, Portable Radiation Survey Equipment Annual rate based on an 8-year life span for 10 each											
Portable Ion Chambers	15	yr							1,356	20,340	20,340
Catalog, Portable Radiation Survey Equipment Annual rate based on a 10-year life span for 10 each											
Environmental Air Samplers	12	yr							1,756	21,192	21,192
Catalog, Air sampler Equipment Annual rate based on an 8-year life span for 12 each											
Regulated Air Sample Stations	12	yr							1,432	17,184	17,184
Catalog, Air sampler Equipment Annual rate based on an 8-year life span for 12 each											
Alpha Cont. Air Monitor System	15	yr							4,759	71,385	71,385
Catalog, Air sampler Equipment Annual rate based on a 10-year life span for 6 each											
Low Flow Personal Air Monitors	15	yr							1,541	23,115	23,115
Catalog, Air sampler Equipment Annual rate based on a 10-year life span for 40 each											
Mass Flow Calibrators	10	yr							267	2,670	2,670
Phone quote, Air sampler Equipment Annual rate based on a 10 year life span for 2 each											
Isokinetic Stack Samplers	15	yr							4,995	74,940	74,940
Phone quote, Air sampler Equipment Annual rate based on a 15-year life span for three each											
Gas Proportional Counters	10	yr							8,029	80,290	80,290
Verbal quote, Monitoring Equipment Annual rate based on a 10-year life span for 2 each											

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:51 PM
 FILE NAME RMIFEB94.PEE

SITE SERVICES

SUB CONTRACTOR

RMI &

WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.2 MAJOR SITE-WIDE EQUIPMENT ACQUISITIONS

Hand and Foot Monitors	15	yr						1,249	18,735	18,735
Phone quote, Monitoring Equipment Annual rate based on a 10-year life span for one each										
Auto. Conveyor Monitoring Sys.	12	yr						5,204	62,448	62,448
Catalog, Monitoring Equipment Annual rate based on a 12-year life span for one each										
Personal Contamination Monitor	15	yr						7,410	111,150	111,150
(Portals) with hand held detection option, Catalog quote, Monitoring Equipment Annual rate based on a 10-year life span for 2 each										
Beta Counter	12	yr						311	3,732	3,732
Catalog, Monitoring Equipment Annual rate based on an 8-year life span for one each										
Alpha Counter	12	yr						404	4,848	4,848
Catalog, Monitoring Equipment Annual rate based on an 8-year life span for one each										
Walk Behind Monitors	12	yr						1,189	14,268	14,268
Phone quote, Monitoring Equipment Annual rate based on an 8-year life span for 3 each										
Smear and Air Sample Software	12	yr						4,461	53,532	53,532
Verbal quote, Miscellaneous Equipment Annual rate based on a 12-year life span for one each										
Direct Reading Dosimeters	15	yr						482	7,230	7,230
Catalog, Miscellaneous Equipment Annual rate based on a 10-year life span for 12 each										
Combustible Gas Monitors	12	yr						401	4,812	4,812
Catalog, Miscellaneous Equipment Annual rate based on an 8-year life span for 2 each										
Ratemeter/Prisker	15	yr						3,520	52,800	52,800
Annual rate based on a 10-year life span for 30 each										
Cellular Phone	15	yr						402	6,030	6,030
Annual rate based on a 10-year life span for one each										
Tour Recorder Guard Key	12	yr						268	3,216	3,216
(Annual rate)										
Full Face Respirators	12	yr						1,160	13,920	13,920
For RMI staff - Annual rate based on a 4-year life span for 40 each										

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 pm
 FILE NAME RMIFEB94.PES

SITE SERVICES

SUB CONTRACTOR

R M I &

WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.2 MAJOR SITE-WIDE EQUIPMENT ACQUISITIONS

Portacount Respirator Testor	12	yr							892	10,704	10,704
For RMI Staff - Annual rate based on an 8-year life span for one each											
Respirator Mask Washer	10	yr							89	890	890
For RMI Staff - Annual rate based on a 5-year life span for one each											
Endloader/Backhoe	1	ea							107,060	107,060	107,060
Televideo Conferencing Equip	1	ls									
No charge to project.											
Computer Aided Design System	1	ls							163,130	163,130	163,130
Modular Workstations	15	yr							8,235	123,525	123,525
Annual rate based on a 10 year life span for one											
Platform Scale, 10,000 lb	15	yr							1,472	22,080	22,080
Annual rate based on a 10-year life span for three each											
Platform Scale, Skids	15	yr							178	2,670	2,670
Annual rate based on a 10-year life span for three each											
OVHD Projector Laser Pointer		ea							79		
Instant Cold Packs		ea							1		
Auto Blood Pressure Monitor	1	ea							101	101	101
VCR/Monitor	15	yr							266	3,990	3,990
Annual rate based on a 5-year life span for 3 each											
Safety Training Films	12	yr							5,300	63,600	63,600
Color Laser Printer	12	yr							1,115	13,380	13,380
Annual rate based on an 8-year life span for one each											
Portable Lap Top Computer	15	yr							1,427	21,405	21,405
Annual rate based on a 5-year life span for one each											
Kodak Digitized ID Card Sys	15	yr							28,620	429,300	429,300
Annual rate based on a 10-year life span for one each											
OSHA Fast Regs & Annual Update	12	yr							1,963	23,556	23,556
Misc Software	12	yr							892	10,704	10,704
Electronic Thermometer	15	yr							236	3,540	3,540
Annual rate based on a 5-year life span for one each											

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 5 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 pm
 FILE NAME RMIFEB94.PEE

SITE SERVICES

SUB CONTRACTOR

R M I &

WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	

3.2 MAJOR SITE-WIDE EQUIPMENT ACQUISITIONS

Ice Vests w/Refills	12	yr						1,386	16,632	16,632
Annual rate based on the purchase on 6 each										
Freezer	12	yr						78	936	936
Annual rate based on an 8-year life span for one each										
Lifeline & Recovery System	12	yr						318	3,816	3,816
Annual rate based on an 8-year life span for one each										
Telephone System Upgrade	8	yr						1,115	8,920	8,920
Annual rate base on an 8-year life span for one system										
Remove 3750 Kva Substation	1	ls						44,600	44,600	44,600
Purchase From CEI										
Sales Tax @ 6%	6	pct						2,952,107	177,126	177,126
TOTAL MAJOR SITE-WIDE EQUIPMENT ACQUISITIONS			0						3,129,233	\$ 3,129,233

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 3:52 PM
 FILE NAME RMIPEB94 PEE

SITE SERVICES

SUB CONTRACTOR

RMI &

WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.4 LAB EQUIPMENT

Copiers (Large)	10	yr							9,813	98,130	98,130
Instrumentation, Information Management Annual rate based on a 5-year life span for one each											
File Cabinets (4 Drawer)	12	yr							446	5,352	5,352
Instrumentation, Information Management Annual rate based on a 12-year life span for 6 each											
Training	12	yr							44,600	535,200	535,200
Instrumentation, Other Startup Costs Annual rate for technical training of Lab Personnel											
Standards	12	yr							17,850	214,200	214,200
Instrumentation, Other Startup Costs (Annual budget)											
Reagents & Glassware	12	yr							17,840	214,080	214,080
Instrumentation, Other Startup Costs (Annual budget)											
Clothing, Smp1 Kits/Botles,etc	12	yr							17,845	214,140	214,140
Instrumentation, Other Startup Costs (Annual budget)											
Sales Tax @ 6%	6	pct							2,004,348	120,261	120,261
TOTAL LAB EQUIPMENT			0						0	2,124,609	\$ 2,124,609

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 pm
 FILE NAME RMIFEB94.PEE

SITE SERVICES
 WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	SUB CONTRACTOR									RMI &		
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST	TOTAL COST	
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			

3.5 OTHER

Digital Imaging	1	ls												
No charge to project.														
Super "V" Video Equipment	1	ls										10,705	10,705	10,705
Initial purchase														
Relocate Exist Photo Darkroom	1	ls										4,460	4,460	4,460
Portable Lights	12	yr										900	10,800	10,800
Annual allowance														
Two-way Radios	12	yr										2,250	27,000	27,000
Purchase Order, Miscellaneous Equipment														
Annual rate based on a 4-year life span for 10 each														
Conveyor System	15	yr										2,140	32,100	32,100
For loading soil boxes.														
Annual rate based on a 5 year life span for one each														
Portable Loading Dock	15	yr										3,125	46,875	46,875
Heavy duty hinged for trucks, 7' x 8' length														
includes disposal. Annual rate based on a 10-year life span for one each														
Sanitary Sewage Treatment Sys	10	yr										5,925	59,250	59,250
w/ lift station, Sequencing Batch Reactor (SBR) process														
complete Modular Sys w/ Prt Quote: Enprotec per Craig														
Erven (606) 371-9898 Annual rate for 10-yr life span														
Sanitary Sewage Holding Tank	11.5	yr										750	8,625	8,625
10,000 Gallon Fiberglass														
Annual rate based on an 8-year life span for one each														
Personal Computers	30	ea										6,160	184,800	184,800
Initial purchase														
Network Hardware/Software	1	ls										210,635	210,635	210,635
Initial purchase														
Network Cabling	1	ls										38,906	38,906	38,906
Initial purchase														
Non-Destr Analysis Survey Eq	12	yr										35,685	428,220	428,220
Annual rate based on an allowance														
Deltec Software	1	ls										35,133	35,133	35,133
Initial purchase														
GAMMA SPEC Software Upgarde	1	ls										850	850	850
Initial purchase														
CAD Upgrade	1	ls										12,875	12,875	12,875
Initial purchase														
Computer Hardware/Software	14	yr										93,085	1,303,190	1,303,190
Annual computer hardware/software replacement costs beginning in FY96.														

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 pm
 FILE NAME RMIFEB94.PEE

SITE SERVICES

SUB CONTRACTOR

RMI &

WBS CODE 1.1.1.2.2.
 EQUIPMENT PROCUREMENT

QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST

3.5 OTHER

Radiation Air Monitors	12	yr							9,914	118,968	118,968
RMI Furnished for Contractor											
Annual rate based on a life span of 8-years for 10 each											
Dust Monitors	12	yr							9,260	111,120	111,120
RMI Furnished for Contractor											
Annual rate based on an 8-year life span for two each											
Sales Tax @ 6%	6	pct							2,644,512	158,671	158,671
TOTAL OTHER				0				0		2,803,183	\$ 2,803,183

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.1.2.3
DESCRIPTION: UTILITIES & MISCELLANEOUS

11-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1 UTILITIES & MISCELLANEOUS					
2 Sanitary Holding Tank Monthly Maintenance	0	0	0	90,984	90,984
3 PC Maintenance & Maintenance Agreements	0	0	0	1,597,050	1,597,050
4 Office Space Rental	0	0	0	4,397,936	4,397,936
5					
6					
7					
8					
9					
10					
11					
12					
13 SUBTOTAL DIRECTS	0	0	0	6,085,970	6,085,970
14 RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15 HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16 JOB CONDITION FACTOR	0.0%	0	0		0
17 SUBTOTAL		0	0	6,085,970	6,085,970
18 CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19 SUBTOTAL		0	0	6,085,970	6,085,970
20 CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21 SUBTOTAL		0	0	6,085,970	6,085,970
22 CRAFT SUPERVISION	0.0%	0	0		0
23 SUBTOTAL		0	0	6,085,970	6,085,970
24 LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25 SALES TAX	0.0%				0
26 SUBTOTAL		0	0	6,085,970	6,085,970
27 SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28 SUBTOTAL					6,085,970
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30 SUBTOTAL					6,085,970
31 RMI ENGINEERING	0.0%				0
32 SUBTOTAL					6,085,970
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					6,085,970
35 FIELD WORK ADMINISTRATION	0.0%				0
36 SUBTOTAL					6,085,970
37 ALL RISK INSURANCE	0.0%				0
38 SUBTOTAL					6,085,970
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					6,085,970

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 pm
 FILE NAME RMIFEB94.PFE

SITE SERVICES
 WBS CODE 1.1.1.2.3.
 UTILITIES AND MISCELLANEOUS

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST

• UTILITY COSTS

Sanitary Sewage Holding Tank	8.9 yr								10,200	90,984	90,984
Empty the 10,000 Gallon Temporary Sewage Holding Tank											
Annual rate based on \$850/service each month for one each											
TOTAL UTILITY COSTS			0		0		0		90,984	5	90,984

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 PM
 FILE NAME RMIPEB94.PEE

SITE SERVICES		SUB CONTRACTOR						RMI & OTHER COSTS		
WBS CODE 1.1.1.2.3.		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL
UTILITIES AND MISCELLANEOUS	QUANTITY UM	UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST

b COMPUTER MAINTENANCE & SUPPORT COSTS

Financial (Deltek)	15.8 yr							6,000	94,500	94,500
Televideo: FTS Service	15.8 yr							27,500	434,700	434,700
Televideo: Call Maintenance	15.8 yr							3,960	62,370	62,370
Televideo: AT&T Maintenance	15.8 yr							16,440	258,930	258,930
Main Network Hardware/Software	15.8 yr							5,000	78,750	78,750
CAD Maintenance	15.8 yr							34,000	535,500	535,500
Primavera (3 Packages)	15.8 yr							1,200	18,900	18,900
Timberline	15.8 yr							1,000	15,750	15,750
Microframe	15.8 yr							6,200	97,650	97,650
TOTAL COMPUTER MAINTENANCE & SUPPORT COSTS								0	1,597,050	\$ 1,597,050

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 PROGRAM MANAGEMENT

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94 @ 5:52 pm
 FILE NAME RMIFEB94.PEE

WBS LEVEL 6 DETAIL

SITE SERVICES WBS CODE 1.1.1.2.3. UTILITIES AND MISCELLANEOUS	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST			

c SPACE RENTAL

Main Office	15.8 yr								85,969	1,354,012	1,354,012
6,526 sf (1st floor) + 6,700 (2nd floor) = 13,226 sf											
13,226 sf x \$6.50 /sf/yr = \$85,969 / yr											
Outside Warehouse	15.8 yr								6,000	94,500	94,500
4,000 sf x \$1.50/sf/yr = \$6,000/yr											
Lab 1st Floor	15.8 yr								23,920	376,740	376,740
3,682 sf x \$6.50/sf/yr = \$23,920/yr											
Main Plant - Metals	15.8 yr								64,800	1,020,600	1,020,600
43,200 sf @ \$1.50/sf/yr = \$64,800/yr											
Lab - 2nd Floor	15.8 yr								9,692	152,641	152,641
1,491 sf @ \$6.50/sf = \$9,691.50/yr											
Main Plant - Stores Area	15.8 yr								5,568	87,696	87,696
3,712 sf @ \$1.50/sf = annual rate											
Main Office Extrusion	15.8 yr								22,068	347,563	347,563
3,395 sf @ \$6.50/sf = annual rate											
Main Plant Extrusion	15.8 yr								61,218	964,184	964,184
40,812 sf @ \$1.50/sf = annual rate											
TOTAL SPACE RENTAL									0	0	0
									4,397,936	\$ 4,397,936	

SITE PREPARATIONS

1.1.2.1

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.1
DESCRIPTION: SITE PREPARATIONS

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	180,000	180,000
2	LAYDOWN AREAS/STAGING	152	3,075	4,431	15,000	22,506
3	RF-6 BLDG ADDN	517	10,408	5,056	32,980	48,444
4	ELECTRICAL	1,409	28,399	41,008	0	69,407
5	WATER TREATMENT & SANITARY SEWER RE-ROUTE	674	13,592	13,402	0	26,994
6	TEMPORARY FACILITIES	1,240	24,997	115,717	0	140,714
7	CONSTRUCTION RUNOFF/EROSION CONTROL	123	2,481	6,545	0	9,026
8	Rounding to nearest \$100				32	32
9						
10						
11	RMI Staffing Plan - Labor		(See separate Staffing Task Analysis)			
12	RMI Staffing Plan - Supplies		(See separate Staffing Task Analysis)			
13	SUBTOTAL DIRECTS	4,115	82,952	186,159	228,012	497,123
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,408	28,370		28,370
15	HP & SAFETY TRAINING FACTOR	7.5%	309	6,222		6,222
16	JOB CONDITION FACTOR	15.0%	617	12,443		12,443
17	SUBTOTAL		6,449	126,987	228,012	544,158
18	CONSTRUCTION EQUIPMENT	45.0%	204	4,096	54,400	58,495
19	SUBTOTAL		6,653	134,083	240,559	602,654
20	CONSTRUCTION SUPPORT COSTS	9.0%	598	12,057		12,057
21	SUBTOTAL		7,251	146,140	240,559	614,711
22	CRAFT SUPERVISION	15.0%	1,087	23,001		23,001
23	SUBTOTAL		8,338	169,141	240,559	637,712
24	LABOR FRINGES/PAYROLL TAXES	42.7%		72,223		72,223
25	SALES TAX	6.0%		14,434		14,434
26	SUBTOTAL		8,338	241,364	254,993	724,369
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					724,369
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					724,369
31	RMI ENGINEERING	4.0%				19,855
32	SUBTOTAL					744,224
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					744,224
35	FIELD WORK ADMINISTRATION	5.0%				25,809
36	SUBTOTAL					770,033
37	ALL RISK INSURANCE	0.4%				2,167
38	SUBTOTAL					772,200
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					772,200

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.1.1
DESCRIPTION: SITE PREPARATIONS
LAYDOWN AREAS/STAGING

10-FEB-94

#	DESCRIPTION	SUBCONTRACTOR			RMI & OTHER	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	LAYDOWN AREAS/STAGING					
2	Subcontracted Construction	152	3,075	4,431	15,000	22,506
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	152	3,075	4,431	15,000	22,506
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	52	1,052		1,052
15	HP & SAFETY TRAINING FACTOR	7.5%	11	231		231
16	JOB CONDITION FACTOR	15.0%	23	461		461
17	SUBTOTAL		238	4,819	4,431	15,000
18	CONSTRUCTION EQUIPMENT	45.0%	8	152	2,017	2,169
19	SUBTOTAL		246	4,971	6,448	15,000
20	CONSTRUCTION SUPPORT COSTS	9.0%	22	445		445
21	SUBTOTAL		268	5,416	6,448	15,000
22	CRAFT SUPERVISION	15.0%	40	849		849
23	SUBTOTAL		308	6,265	6,448	15,000
24	LABOR FRINGES/PAYROLL TAXES	42.7%		2,675		2,675
25	SALES TAX	6.0%		387		387
26	SUBTOTAL		308	8,940	6,835	15,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					30,775
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					30,775
31	RMI ENGINEERING	4.0%				631
32	SUBTOTAL					31,406
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					31,406
35	FIELD WORK ADMINISTRATION	5.0%				820
36	SUBTOTAL					32,226
37	ALL RISK INSURANCE	0.4%				69
38	SUBTOTAL					32,295
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					32,295

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:15 pm
 FILE NAME RMIFEB94.PEE

SITE PREPARATIONS
 WBS CODE 1.1.2.1.

QUANTITY	UM	SUB CONTRACTOR						R M I &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.1 LAYDOWN AREAS/STAGING

Clear & Grub for 92'x 165' area	1,687	sy		7	20.17	.08	136					136
Install Fence w/Gate 9 gage galv steel, 6' high w/ 3 strands of barbed wire 1 ea 12' double gate	514	lf	.14	71	20.17	2.80	1,438	5.69	2,924			4,362
4" Gravel Fill 92' x 165'	186	cy	.40	74	20.17	8.07	1,501	8.10	1,507			3,008
Metals Plant Upgrade For Waste Container Staging & Storage	1	ls								15,000	15,000	15,000
TOTAL LAYDOWN AREAS/STAGING				152			3,075		4,431		15,000	22,506

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

10-FEB-94

WBS NO.: 1.1.2.1.2
DESCRIPTION: SITE PREPARATIONS
RF-6 BLDG ADDN

#	DESCRIPTION	SUBCONTRACTOR			RMI &	TOTAL
		MHR	LABOR	MATERIAL	OTHER	COST
DIRECT COSTS						
1						
2	RF-6 BLDG ADDN	517	10,408	5,056	32,980	48,444
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	517	10,408	5,056	32,980	48,444
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	177	3,560		3,560
15	HP & SAFETY TRAINING FACTOR	7.5%	39	781		781
16	JOB CONDITION FACTOR	15.0%	78	1,561		1,561
17	SUBTOTAL		811	16,310	5,056	32,980
18	CONSTRUCTION EQUIPMENT	45.0%	26	514	6,826	7,340
19	SUBTOTAL		837	16,824	11,882	32,980
20	CONSTRUCTION SUPPORT COSTS	9.0%	75	1,510		1,510
21	SUBTOTAL		912	18,334	11,882	32,980
22	CRAFT SUPERVISION	15.0%	137	2,895		2,895
23	SUBTOTAL		1,049	21,229	11,882	32,980
24	LABOR FRINGES/PAYROLL TAXES	42.7%		9,065		9,065
25	SALES TAX	6.0%		713		713
26	SUBTOTAL		1,049	30,294	12,595	32,980
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					75,869
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					75,869
31	RMI ENGINEERING	4.0%				1,716
32	SUBTOTAL					77,585
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					77,585
35	FIELD WORK ADMINISTRATION	5.0%				2,230
36	SUBTOTAL					79,815
37	ALL RISK INSURANCE	0.4%				187
38	SUBTOTAL					80,002
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					80,002

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 PM
 FILE NAME RMIFEB94.PEE

SITE PREPARATIONS

WBS CODE 1.1.2.1.

	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	
Install Conveyor System	1	ls	300.00	300	20.17	6,051.00	6,051			6,051	
Install Portable Loading Dock Heavy duty hinged for trucks, 7' x 8' length includes disposal, from Richardson	1	ea	100.00	100	20.17	2,017.00	2,017			2,017	
Remove Sheeting		csf	4.40		20.17	88.75					
Install Electric Heaters	1	ea	8.00	8	20.17	161.36	161	500.00	500	661	
12' X 16' Rolling Doors		ea	33.00		20.17	665.61		2,400.00			
Excavate & Box Use 64 boxes-assume soil contaminated		ea	1.00		20.17	20.17					
Add Gravel	1	ls	2.00	2	20.17	40.34	40	75.00	75	115	
Asphalt Paving Roadway paving subcontract, 3" thick	850	sy	.02	20	20.17	.46	394	4.33	3,681	4,075	
Electrical to Heaters Assume tie-in to existing electrical 150 LF conduit & wire, fittings, boxes, switches, etc.	1	ls	6.50	7	20.17	131.11	131	300.00	300	431	
Relocate Gate & Modify Fence	1	ea	80.00	80	20.17	1,613.60	1,614	500.00	500	2,114	
Loading Dock Asphalt Paving Based on Replacement of 850 sy every 5 years for 45 years Roadway paving subcontract, 3" thick	40	yr						825	32,980	32,980	
TOTAL RF-6 BLDG ADDITION				517			10,408		5,056	32,980 \$ 48,444	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.1.2
DESCRIPTION: SITE PREPARATIONS
ELECTRICAL

10-FEB-94

1	DESCRIPTION	SUBCONTRACTOR			RMI & OTHER	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
2						
3	ELECTRICAL	1,409	28,399	41,008	0	69,407
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	1,409	28,399	41,008	0	69,407
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	482	9,712		9,712
15	HP & SAFETY TRAINING FACTOR	7.5%	106	2,130		2,130
16	JOB CONDITION FACTOR	15.0%	211	4,260		4,260
17	SUBTOTAL		2,208	44,501	41,008	0
18	CONSTRUCTION EQUIPMENT	45.0%	70	1,402	18,623	20,025
19	SUBTOTAL		2,278	45,903	59,631	0
20	CONSTRUCTION SUPPORT COSTS	9.0%	205	4,133		4,133
21	SUBTOTAL		2,483	50,036	59,631	0
22	CRAFT SUPERVISION	15.0%	372	7,872		7,872
23	SUBTOTAL		2,855	57,908	59,631	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		24,727		24,727
25	SALES TAX	6.0%		3,578		3,578
26	SUBTOTAL		2,855	82,635	63,209	0
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					145,844
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					145,844
31	RMI ENGINEERING	4.0%				5,834
32	SUBTOTAL					151,678
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					151,678
35	FIELD WORK ADMINISTRATION	5.0%				7,584
36	SUBTOTAL					159,262
37	ALL RISK INSURANCE	0.4%				637
38	SUBTOTAL					159,899
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					159,899

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 pm
 FILE NAME RMIPEB94.PEE

SITE PREPARATIONS
 WBS CODE 1.1.2.1.

QUANTITY	UM	SUB CONTRACTOR									RMI &		TOTAL COST
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS				
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			
3.3 ELECTRICAL													
8	ea	11.45	92	20.17	230.95	1,848	331.50	2,652				4,500	
16	ea	3.70	59	20.17	74.63	1,194	39.78	636				1,830	
96	ea	1.56	150	20.17	31.47	3,021	10.20	979				4,000	
8	ea	7.02	56	20.17	141.59	1,133	110.16	881				2,014	
6	ea	8.00	48	20.17	161.36	968	693.60	4,162				5,130	
12	ea	12.00	144	20.17	242.04	2,904	285.60	3,427				6,331	
6	ea	5.52	33	20.17	111.34	668	55.08	330				998	
3	ea	8.62	26	20.17	173.87	522	48.96	147				669	
4	ea	12.00	48	20.17	242.04	968	387.60	1,550				2,518	
12	ea	2.00	24	20.17	40.34	484	38.76	465				949	
7	clf	.54	4	17.34	9.36	66	17.34	121				187	
15	clf	1.60	24	20.17	32.27	484	61.20	918				1,402	
45	clf	1.80	81	20.17	36.31	1,634	80.58	3,626				5,260	
7	ea	80.00	560	20.17	1,613.60	11,295	2,142.00	14,994				26,289	
4	ea	15.00	60	20.17	302.55	1,210	1,530.00	6,120				7,330	
TOTAL ELECTRICAL			1,409			28,399		41,008			0	69,407	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.1.4

10-FEB-94

DESCRIPTION: SITE PREPARATIONS
WATER TREATMENT & SANITARY SEWER RE-ROUTE

#	DESCRIPTION	SUBCONTRACTOR			RMI & OTHER	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	WATER TREATMENT & SANITARY SEWER RE-ROUTE	674	13,592	13,402	0	26,994
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	674	13,592	13,402	0	26,994
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	231	4,648		4,648
15	HP & SAFETY TRAINING FACTOR	7.5%	51	1,019		1,019
16	JOB CONDITION FACTOR	15.0%	101	2,039		2,039
17	SUBTOTAL		1,057	21,298	13,402	0
18	CONSTRUCTION EQUIPMENT	45.0%	33	671	8,913	
19	SUBTOTAL		1,090	21,969	22,315	0
20	CONSTRUCTION SUPPORT COSTS	9.0%	98	1,977		1,977
21	SUBTOTAL		1,188	23,946	22,315	0
22	CRAFT SUPERVISION	15.0%	178	3,768		3,768
23	SUBTOTAL		1,366	27,714	22,315	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		11,834		11,834
25	SALES TAX	6.0%		1,339		1,339
26	SUBTOTAL		1,366	39,548	23,654	0
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					63,202
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					63,202
31	RMI ENGINEERING	4.0%				2,528
32	SUBTOTAL					65,730
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					65,730
35	FIELD WORK ADMINISTRATION	5.0%				3,286
36	SUBTOTAL					69,016
37	ALL RISK INSURANCE	0.4%				276
38	SUBTOTAL					69,292
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					69,292

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 pm
 FILE NAME RMIFEB94.PEE

SITE PREPARATIONS

WBS CODE 1.1.2.1. .

SUB CONTRACTOR

RMI &

OTHER COSTS

QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.4 WATER TREATMENT & SANITARY SEWER RE-ROUTE

Install Sanit Swg Trtmnt Sys	1	ea	250.00	250	20.17	5,042.50	5,043				5,043
Includes Sequencing Batch Reactor (SBR), Lift Station, Tanks, Etc											
Sanitary Sewage Collection Sys	1,026	lf	.34	349	20.17	6.86	7,036	12.77	13,102		20,138
Includes 4" & 6" Ductile Iron Pipe, 4 Manholes, Excavation, Bedding, and Backfill											
Install Sanit Swg Holding Tank	1	ea	75.00	75	20.17	1,512.75	1,513	300.00	300		1,813
10,000 Gallon, Fiberglass Includes Temporary Piping Tie-ins (Phase II), and Removal											
TOTAL WATER TREATMENT & SANITARY SEWER RE-ROUTE				674			13,592		13,402	0	\$ 26,994

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.1.4
DESCRIPTION: SITE PREPARATIONS
TEMPORARY FACILITIES

10-FEB-94

#	DESCRIPTION	SUBCONTRACTOR			RMI &	TOTAL
		MHRS	LABOR	MATERIAL	OTHER	COST
DIRECT COSTS						
1						
2						
3						
4						
5	Temporary Facilities	1,240	24,997	115,717	0	140,714
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	1,240	24,997	115,717	0	140,714
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	424	8,549		8,549
15	HP & SAFETY TRAINING FACTOR	7.5%	93	1,875		1,875
16	JOB CONDITION FACTOR	15.0%	186	3,750		3,750
17	SUBTOTAL		1,943	39,171	0	154,888
18	CONSTRUCTION EQUIPMENT	45.0%	61	1,234	16,393	17,627
19	SUBTOTAL		2,004	40,405	132,110	172,515
20	CONSTRUCTION SUPPORT COSTS	9.0%	180	3,629		3,629
21	SUBTOTAL		2,184	44,034	132,110	176,144
22	CRAFT SUPERVISION	15.0%	328	6,940		6,940
23	SUBTOTAL		2,512	50,974	132,110	183,084
24	LABOR FRINGES/PAYROLL TAXES	42.7%		21,766		21,766
25	SALES TAX	6.0%		7,927		7,927
26	SUBTOTAL		2,512	72,740	140,037	212,777
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					212,777
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					212,777
31	RMI ENGINEERING	4.0%				8,511
32	SUBTOTAL					221,288
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					221,288
35	FIELD WORK ADMINISTRATION	5.0%				11,064
36	SUBTOTAL					232,352
37	ALL RISK INSURANCE	0.4%				929
38	SUBTOTAL					233,281
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					233,281

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / EMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR EMI/PBSI
 ESTIMATE TYPE CDR (REV.3)

EMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1984
 PRINT DATE 2-10-84 @ 2:16 PM
 FILE NAME EMIPEBS.PEE

SITE PREPARATIONS

WBS CODE 1.1.2.1.

SUBCONTRACTOR

MAN HOURS

LABOR

MATERIAL

OTHER COSTS

QUANTITY	UM	MAN HOURS		CREW		TOTAL		LABOR		MATERIAL		OTHER COSTS		TOTAL
		UNIT	TOTAL	UNIT	RATE	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	

3.5 TEMPORARY FACILITIES

Grading	1,800	sf	.02	36	20.17	.40	726							726
for two trailers: showers, mask washing, change area, rest rooms, locker rooms, eating facilities, & personnel decon facilities														
Stone Fill	22	cy	.25	6	20.17	5.04	111	12.00	264					375
For two trailers														
Concrete Piers	2	cy	6.00	12	20.17	121.02	242	80.00	160					402
For two trailers														
Stairs, Walks, Canopy	225	sf	.25	56	20.17	5.04	1,135	5.00	1,125					2,260
For two trailers														
Underskiiting	432	sf	.20	86	20.17	4.03	1,743	5.00	2,160					3,903
For two trailers														
Tie Downs & Anchors	4	set	4.00	16	20.17	80.68	323	100.00	400					723
For two trailers														
Trailers	2	ea	40.00	80	20.17	806.80	1,614	43,200.00	86,400					88,014
576 sf each x \$75.00 per sf														
Walkway lighting	1	ls	30.00	30	20.17	605.10	605	600.00	600					1,205
For two trailers														
Utilities	1	ls	250.00	250	20.17	5,042.50	5,043	3,500.00	3,500					8,543
For two trailers														
Collection tank, 2000 gal	1	ea	100.00	100	20.17	2,017.00	2,017	6,000.00	6,000					8,017
For two trailers														
Mask Washing Unit	1	ea	140.00	140	20.17	2,823.80	2,824	7,500.00	7,500					10,324
For two trailers														
Potable Water to Showers	350	lf	.78	273	20.17	15.73	5,506	7.50	2,625					8,131
For two trailers														
Includes 2-1/2" pipe, Valves, and fittings laid in 4' average depth trench, incl excav, bed, and bkfil														
Fence	200	lf	.13	26	20.17	2.62	524	5.61	1,122					1,646
For two trailers														
Gate	1	ea	9.50	10	20.17	191.62	192	484.50	485					677
For two trailers														
Excavation	70	cy	.20	14	20.17	4.03	282							282
For two trailers														
Backfill	40	cy	.50	20	20.17	10.09	403	13.57	543					946
For two trailers														
Compaction	40	cy	.20	8	20.17	4.03	161							161
For two trailers														
Concrete	30	cy	.29	9	20.17	5.85	175	71.40	2,142					2,317
For two trailers														
Forms	200	sfca	.30	60	20.17	6.05	1,210	1.67	334					1,544
For two trailers														

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 PM
 FILE NAME RMIFEB94.PEE

SITE PREPARATIONS

SUB CONTRACTOR

R M I &

WBS CODE 1.1.2.1.

QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.5 TEMPORARY FACILITIES

Misc Equipment Foundation	1	ls	8.00	8	20.17	161.36	161	357.00	357		518
For two trailers											
TOTAL TEMPORARY FACILITIES				1,240			24,997		115,717	0	140,714

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.1.6
DESCRIPTION: SITE PREPARATIONS
CONSTRUCTION RUNOFF/EROSION CONTROL

10-FEB-94

#	DESCRIPTION	SUBCONTRACTOR			RMI & OTHER	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	CONSTRUCTION RUNOFF/EROSION CONTROL	123	2,481	6,545	0	9,026
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	123	2,481	6,545	0	9,026
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	42	849		849
15	HP & SAFETY TRAINING FACTOR	7.5%	9	186		186
16	JOB CONDITION FACTOR	15.0%	18	372		372
17	SUBTOTAL		192	3,888	0	10,433
18	CONSTRUCTION EQUIPMENT	45.0%	6	123		1,750
19	SUBTOTAL		198	4,011	0	12,184
20	CONSTRUCTION SUPPORT COSTS	9.0%	18	363		363
21	SUBTOTAL		216	4,374	0	12,547
22	CRAFT SUPERVISION	15.0%	32	677		677
23	SUBTOTAL		248	5,051	0	13,224
24	LABOR FRINGES/PAYROLL TAXES	42.7%		2,157		2,157
25	SALES TAX	6.0%		490		490
26	SUBTOTAL		248	7,208	0	15,871
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					15,871
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					15,871
31	RMI ENGINEERING	4.0%				635
32	SUBTOTAL					16,506
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					16,506
35	FIELD WORK ADMINISTRATION	5.0%				825
36	SUBTOTAL					17,331
37	ALL RISK INSURANCE	0.4%				69
38	SUBTOTAL					17,400
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					17,400

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 PM
 FILE NAME RMIFEB94.PEE

SITE PREPARATIONS

WBS CODE 1.1.2.1.

QUANTITY	UM	SUB CONTRACTOR						RMI &		TOTAL COST
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.6 CONSTRUCTION RUN-OFF/EROSION CONTROL

Construction Run-off Control	1	ls	123.00	123	20.17	2,480.91	2,481	6,545.00	6,545		9,026
Consists of @ 2,000 L.F. of barrier with drains.											
TOTAL CONSTRUCTION RUN-OFF/EROSION CONTROL				123			2,481		6,545	0	\$ 9,026

GUIDELINES FOR CONSTRUCTION ESTIMATES

Site Preparations

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	2
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	4
Fumes, Dusts, Hazards	0 - 10	2	3
Material Handling Conditions (Distance, receiving)	0 - 3	1	1
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	1
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	1
			TOTAL - <u>15%</u>

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

Site Preparations

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 3%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 3%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 0%

TOTAL - 9%

BUILDINGS GROUP "A"

1.1.2.2

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2
DESCRIPTION: BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	15,000	15,000
2	CHARACTERIZATION	0	0	0	116,200	116,200
3	EQUIPMENT REMEDIATION	30,651	618,200	9,062	0	627,262
4	BUILDING REMEDIATION	71,905	1,450,159	460,614	0	1,910,773
5	WM - HANDLING & PACKAGING	0	0	0	2,004,217	2,004,217
6	WM - STAGING & STORAGE	(See separate Staffing Task Analysis)				
7	WM - SHIPMENTS & DISPOSAL	0	0	0	6,106,309	6,106,309
8	ENVIRONMENTAL, SAFETY, & HEALTH	(See separate Staffing Task Analysis)				
9	LABORATORY SERVICES	0	0	0	1,399,002	1,399,002
10	Rounding to the nearest \$100				(65)	(65)
11	RMI Staffing Plan - Labor	(See separate Staffing Task Analysis)				
12	RMI Staffing Plan - Supplies	(See separate Staffing Task Analysis)				
13	SUBTOTAL DIRECTS	102,556	2,068,359	469,676	9,640,663	12,178,698
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	35,075	707,378		707,378
15	HP & SAFETY TRAINING FACTOR	7.5%	7,692	155,127		155,127
16	JOB CONDITION FACTOR	15.2%	15,596	314,529		314,529
17	SUBTOTAL		160,919	3,245,393	9,640,663	13,355,732
18	CONSTRUCTION EQUIPMENT	45.0%	5,068	102,230	1,358,197	1,460,427
19	SUBTOTAL		165,987	3,347,623	9,640,663	14,816,159
20	CONSTRUCTION SUPPORT COSTS	31.5%	52,286	1,054,608		1,054,608
21	SUBTOTAL		218,273	4,402,231	9,640,663	15,870,767
22	CRAFT SUPERVISION	15.0%	32,741	693,127		693,127
23	SUBTOTAL		251,014	5,095,358	9,640,663	16,563,894
24	LABOR FRINGES/PAYROLL TAXES	42.7%		2,175,718		2,175,718
25	SALES TAX	6.0%		109,672		109,672
26	SUBTOTAL		251,014	7,271,076	9,640,663	18,849,284
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.00%				0
28	SUBTOTAL					18,849,284
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					18,849,284
31	RMI ENGINEERING	4.00%				368,345
32	SUBTOTAL					19,217,629
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.00%				0
34	SUBTOTAL					19,217,629
35	FIELD WORK ADMINISTRATION	5.00%				478,848
36	SUBTOTAL					19,696,477
37	ALL RISK INSURANCE	0.40%				40,223
38	SUBTOTAL					19,736,700
39	PERFORMANCE & PAYMENT BOND	0.00%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					19,736,700

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	MAIN PLANT BUILDING	16,229	327,320	4,797	0	332,117
2	NORTHWEST STORAGE BUILDING	3,496	70,510	1,034	0	71,544
3	RF-6 BUTLER BUILDING ADDITION	735	14,825	218	0	15,043
4	RF-6 BUTLER BUILDING	7,438	150,029	2,199	0	152,228
5	RF-3 BUTLER BUILDING	528	10,645	156	0	10,801
6	TOOL CRIB BUILDING	873	17,607	258	0	17,865
7	RUNOUT TABLE (COOLING) FILTER BUILDING	162	3,276	48	0	3,324
8	CAMPBELL SAW FILTER BUILDING	143	2,866	42	0	2,908
9	DIE HEAD FILTER BUILDING	361	7,286	107	0	7,393
10	NORTHEAST BILLET STORAGE	686	13,836	203	0	14,039
11						
12						
13	SUBTOTAL DIRECTS	30,651	618,200	9,062	0	627,262
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	10,483	211,424		211,424
15	HP & SAFETY TRAINING FACTOR	7.5%	2,299	46,365		46,365
16	JOB CONDITION FACTOR	11.0%	3,372	68,002		68,002
17	SUBTOTAL		46,805	943,991	9,062	953,053
18	CONSTRUCTION EQUIPMENT	45.0%	1,474	29,736	395,060	424,796
19	SUBTOTAL		48,279	973,727	404,122	1,377,849
20	CONSTRUCTION SUPPORT COSTS	31.5%	15,208	306,745		306,745
21	SUBTOTAL		63,487	1,280,472	404,122	1,684,594
22	CRAFT SUPERVISION	15.0%	9,523	201,602		201,602
23	SUBTOTAL		73,010	1,482,074	404,122	1,886,196
24	LABOR FRINGES/PAYROLL TAXES	42.7%		632,846		632,846
25	SALES TAX	6.0%		24,247		24,247
26	SUBTOTAL		73,010	2,114,920	428,369	2,543,289
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					2,543,289
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					2,543,289
31	RMI ENGINEERING	4.0%				101,732
32	SUBTOTAL					2,645,021
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					2,645,021
35	FIELD WORK ADMINISTRATION	5.0%				132,251
36	SUBTOTAL					2,777,272
37	ALL RISK INSURANCE	0.4%				11,109
38	SUBTOTAL					2,788,381
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					2,788,381

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - Main Plant Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRs	LABOR	MATERIAL		
DIRECT COSTS						
1	MAIN PLANT BUILDING	16,229	327,320	4,797	0	332,117
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	16,229	327,320	4,797	0	332,117
14	RADIOLOGICAL CONDITIONS FACTOR	4.2%	5,550	111,943		111,943
15	HP & SAFETY TRAINING FACTOR	7.5%	1,217	24,549		24,549
16	JOB CONDITION FACTOR	11.0%	1,785	36,005		36,005
17	SUBTOTAL		24,781	499,817	4,797	504,614
18	CONSTRUCTION EQUIPMENT	45.0%	781	15,744	209,174	224,918
19	SUBTOTAL		25,562	515,561	213,971	729,532
20	CONSTRUCTION SUPPORT COSTS	31.5%	8,052	162,409		162,409
21	SUBTOTAL		33,614	677,970	213,971	891,941
22	CRAFT SUPERVISION	15.0%	5,042	106,739		106,739
23	SUBTOTAL		38,656	784,709	213,971	998,680
24	LABOR FRINGES/PAYROLL TAXES	42.7%		335,071		335,071
25	SALES TAX	6.0%		12,838		12,838
26	SUBTOTAL		38,656	1,119,780	226,809	1,346,589
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					1,346,589
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,346,589
31	RMI ENGINEERING	4.0%				53,864
32	SUBTOTAL					1,400,453
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,400,453
35	FIELD WORK ADMINISTRATION	5.0%				70,023
36						1,470,476
37	ALL RISK INSURANCE	0.4%				5,882
38	SUBTOTAL					1,476,358
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,476,358

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 pm
 FILE NAME RMIFEB94_PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

SUB CONTRACTOR

RMI &
OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Demo Equipment	319.8	ton	42.00	13,432	20.17	847.14	270,915	15.00	4,797			275,712
Free Release Equipment	79.9	ton	35.00	2,797	20.17	705.95	56,405					56,405
TOTAL MAIN PLANT BUILDING				16,229			327,320		4,797		0	\$ 332,117

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - NW Storage Bldg

10-FEB-94

1	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
2	NORTHWEST STORAGE BUILDING	3,496	70,510	1,034	0	71,544
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	3,496	70,510	1,034	0	71,544
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,196	24,114		24,114
15	HP & SAFETY TRAINING FACTOR	7.5%	262	5,288		5,288
16	JOB CONDITION FACTOR	11.0%	385	7,756		7,756
17	SUBTOTAL		5,339	107,668	1,034	108,702
18	CONSTRUCTION EQUIPMENT	45.0%	168	3,392	45,059	48,451
19	SUBTOTAL		5,507	111,060	46,093	157,153
20	CONSTRUCTION SUPPORT COSTS	31.5%	1,735	34,995		34,995
21	SUBTOTAL		7,242	146,055	46,093	192,148
22	CRAFT SUPERVISION	15.0%	1,086	22,991		22,991
23	SUBTOTAL		8,328	169,046	46,093	215,139
24	LABOR FRINGES/PAYROLL TAXES	42.7%		72,183		72,183
25	SALES TAX	6.0%		2,766		2,766
26	SUBTOTAL		8,328	241,229	48,859	290,088
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					290,088
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					290,088
31	RMI ENGINEERING	4.0%				11,604
32	SUBTOTAL					301,692
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					301,692
35	FIELD WORK ADMINISTRATION	5.0%				15,085
36						316,777
37	ALL RISK INSURANCE	0.4%				1,267
38	SUBTOTAL					318,044
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					318,044

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:16 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A WBS CODE 1.1.2.2.3.1 BUILDING REMEDIATION OPERATIONS EQUIPMENT REMEDIATION	QUANTITY UM	SUB CONTRACTOR						R M I & OTHER COSTS			
		MAN HOURS		LABOR		MATERIAL		UNIT	TOTAL	TOTAL	
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.7.0 NORTHWEST STORAGE BUILDING

Demo Equipment	68.9 tcn	42.00	2,894	20.17	847.14	58,368	15.00	1,034			59,402
Free Release Equipment	17.2 ton	35.00	602	20.17	705.95	12,142					12,142
TOTAL NORTHWEST STORAGE BUILDING			3,496			70,510		1,034	0	5	7,544

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - RF-6 Butler Bldg Addn

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	RF-6 BUTLER BUILDING ADDITION	735	14,825	218	0	15,043
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	735	14,825	218	0	15,043
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	251	5,070		5,070
15	HP & SAFETY TRAINING FACTOR	7.5%	55	1,112		1,112
16	JOB CONDITION FACTOR	11.0%	81	1,631		1,631
17	SUBTOTAL		1,122	22,638	218	22,856
18	CONSTRUCTION EQUIPMENT	45.0%	35	713	9,474	10,187
19	SUBTOTAL		1,157	23,351	9,692	33,043
20	CONSTRUCTION SUPPORT COSTS	31.5%	364	7,342		7,342
21	SUBTOTAL		1,521	30,693	9,692	40,385
22	CRAFT SUPERVISION	15.0%	228	4,827		4,827
23	SUBTOTAL		1,749	35,520	9,692	45,212
24	LABOR FRINGES/PAYROLL TAXES	42.7%		15,167		15,167
25	SALES TAX	6.0%		582		582
26	SUBTOTAL		1,749	50,687	10,274	60,961
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					60,961
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					60,961
31	RMI ENGINEERING	4.0%				2,438
32	SUBTOTAL					63,399
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					63,399
35	FIELD WORK ADMINISTRATION	5.0%				3,170
36						66,569
37	ALL RISK INSURANCE	0.4%				266
38	SUBTOTAL					66,835
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					66,835

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 0-94 @ 2:15 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR					MATERIAL		RMI & OTHER COSTS		TOTAL COST
		MAN HOURS	UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL		
		UNIT	HOURS	RATE	COST	TOTAL	COST	COST	COST		

3.7.0 RF-6 BUTLER BUILDING ADDITION

Demo Equipment	14.5 ton	42.00	609	20.17	847.14	12,284	15.00	218		12,502
Free Release Equipment	3.6 ton	35.00	126	20.17	705.95	2,541				2,541
TOTAL RF-6 BUTLER BUILDING ADDITION			735			14,825		218	0 \$	15,043

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" -- RF-6 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	RF-6 BUTLER BUILDING	7,438	150,029	2,199	0	152,228
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	7,438	150,029	2,199	0	152,228
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	2,544	51,310		51,310
15	HP & SAFETY TRAINING FACTOR	7.5%	558	11,252		11,252
16	JOB CONDITION FACTOR	11.0%	818	16,503		16,503
17	SUBTOTAL		11,358	229,094	2,199	231,293
18	CONSTRUCTION EQUIPMENT	45.0%	358	7,216	95,876	103,092
19	SUBTOTAL		11,716	236,310	98,075	334,385
20	CONSTRUCTION SUPPORT COSTS	31.5%	3,691	74,447		74,447
21	SUBTOTAL		15,407	310,757	98,075	408,832
22	CRAFT SUPERVISION	15.0%	2,311	48,924		48,924
23	SUBTOTAL		17,718	359,681	98,075	457,756
24	LABOR FRINGES/PAYROLL TAXES	42.7%		153,584		153,584
25	SALES TAX	6.0%		5,885		5,885
26	SUBTOTAL		17,718	513,265	103,960	617,225
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					617,225
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					617,225
31	RMI ENGINEERING	4.0%				24,689
32	SUBTOTAL					641,914
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					641,914
35	FIELD WORK ADMINISTRATION	5.0%				32,096
36						674,010
37	ALL RISK INSURANCE	0.4%				2,696
38	SUBTOTAL					676,706
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					676,706

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	MAN HOURS		SUB CONTRACTOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	

3.7.0 RF-6 BUTLER BUILDING

Demo Equipment	146.6 ton	42.00	6,157	20.17	847.14	124,191	15.00	2,199			126,390
Free Release Equipment	36.6 ton	35.00	1,281	20.17	705.95	25,838					25,838
TOTAL RF-6 BUTLER BUILDING			7,438			150,029		2,199		0	152,228

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - RF-3 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	RF-3 BUTLER BUILDING	528	10,645	156	0	10,801
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	528	10,645	156	0	10,801
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	181	3,641		3,641
15	HP & SAFETY TRAINING FACTOR	7.5%	40	798		798
16	JOB CONDITION FACTOR	11.0%	58	1,171		1,171
17	SUBTOTAL		807	16,255	156	16,411
18	CONSTRUCTION EQUIPMENT	45.0%	25	512	6,803	7,315
19	SUBTOTAL		832	16,767	6,959	23,726
20	CONSTRUCTION SUPPORT COSTS	31.5%	262	5,282		5,282
21	SUBTOTAL		1,094	22,049	6,959	29,008
22	CRAFT SUPERVISION	15.0%	164	3,470		3,470
23	SUBTOTAL		1,258	25,519	6,959	32,478
24	LABOR FRINGES/PAYROLL TAXES	42.7%		10,897		10,897
25	SALES TAX	6.0%		418		418
26	SUBTOTAL		1,258	36,416	7,377	43,793
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					43,793
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					43,793
31	RMI ENGINEERING	4.0%				1,752
32	SUBTOTAL					45,545
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					45,545
35	FIELD WORK ADMINISTRATION	5.0%				2,277
36	SUBTOTAL					47,822
37	ALL RISK INSURANCE	0.4%				191
38	SUBTOTAL					48,013
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					48,013

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						R M I &			
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.7.0 RP-3 BUTLER BUILDING

Demo Equipment	10.4 ton	42.00	437	20.17	847.14	8,810	15.00	156			8,966
Free Release Equipment	2.6 ton	35.00	91	20.17	705.95	1,835					1,835
TOTAL RP-3 BUTLER BUILDING			528			10,645		156		0	\$ 10,801

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - Tool Crib Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	TOOL CRIB BUILDING	873	17,607	258	0	17,865
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	873	17,607	258	0	17,865
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	299	6,022		6,022
15	HP & SAFETY TRAINING FACTOR	7.5%	65	1,321		1,321
16	JOB CONDITION FACTOR	11.0%	96	1,937		1,937
17	SUBTOTAL		1,333	26,887	0	27,145
18	CONSTRUCTION EQUIPMENT	45.0%	42	847	11,252	12,099
19	SUBTOTAL		1,375	27,734	11,510	39,244
20	CONSTRUCTION SUPPORT COSTS	31.5%	433	8,734		8,734
21	SUBTOTAL		1,808	36,468	11,510	47,978
22	CRAFT SUPERVISION	15.0%	271	5,737		5,737
23	SUBTOTAL		2,079	42,205	11,510	53,715
24	LABOR FRINGES/PAYROLL TAXES	42.7%		18,022		18,022
25	SALES TAX	6.0%			691	691
26	SUBTOTAL		2,079	60,227	12,201	72,428
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					72,428
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					72,428
31	HMI ENGINEERING	4.0%				2,897
32	SUBTOTAL					75,325
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					75,325
35	FIELD WORK ADMINISTRATION	5.0%				3,766
36						79,091
37	ALL RISK INSURANCE	0.4%				316
38	SUBTOTAL					79,407
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					79,407

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMI FEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.7.6 TOOL CRIB BUILDING

Demo Equipment	17.2 ton	42.00	722	20.17	847.14	14,571	15.00	258			14,829
Free Release Equipment	4.3 ton	35.00	151	20.17	705.95	3,036					3,036
TOTAL TOOL CRIB BUILDING			873			17,607		258	0	0	17,865

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - Runout Table Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7	RUNOUT TABLE (COOLING) FILTER BUILDING	162	3,276	48	0	3,324
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	162	3,276	48	0	3,324
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	55	1,120		1,120
15	HP & SAFETY TRAINING FACTOR	7.5%	12	246		246
16	JOB CONDITION FACTOR	11.0%	18	360		360
17	SUBTOTAL		247	5,002	48	5,050
18	CONSTRUCTION EQUIPMENT	45.0%	8	158	2,093	2,251
19	SUBTOTAL		255	5,160	2,141	7,301
20	CONSTRUCTION SUPPORT COSTS	31.5%	80	1,618		1,618
21	SUBTOTAL		335	6,778	2,141	8,919
22	CRAFT SUPERVISION	15.0%	50	1,061		1,061
23	SUBTOTAL		385	7,339	2,141	9,980
24	LABOR FRINGES/PAYROLL TAXES	42.7%		3,347		3,347
25	SALES TAX	6.0%			128	128
26	SUBTOTAL		385	11,186	2,269	13,455
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					13,455
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					13,455
31	RMI ENGINEERING	4.0%				538
32	SUBTOTAL					13,993
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					13,993
35	FIELD WORK ADMINISTRATION	5.0%				700
36						14,693
37	ALL RISK INSURANCE	0.4%				59
38	SUBTOTAL					14,752
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					14,752

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / FMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A WBS CODE 1.1.2.2.3.1 BUILDING REMEDIATION OPERATIONS EQUIPMENT REMEDIATION	QUANTITY	UM	SUB CONTRACTOR						R M I & OTHER COSTS			
			MAN HOURS		LABOR		MATERIAL		UNIT	TOTAL	TOTAL	
			UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
			RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.7.0 RUNOUT TABLE (COOLING) FILTER BUILDING

Equipment	3.2 ton		42.00	134	20.17	847.14	2,711	15.00	48			2,759
Fixed Base Equipment	.8 ton		35.00	28	20.17	705.95	565					565
TOTAL RUNOUT TABLE (COOLING) FILTER BUILDING				162			3,276		48		0	3,324

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - Campbell Saw Bldg

10-FEB-94

#	DESCRIPTION		FIELD LABOR			RMI & SUBS	TOTAL COST
			MHRS	LABOR	MATERIAL		
DIRECT COSTS							
1							
2							
3							
4							
5							
6							
7							
8	CAMPBELL SAW FILTER BUILDING		143	2,866	42	0	2,908
9							
10							
11							
12							
13	SUBTOTAL DIRECTS		143	2,866	42	0	2,908
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	49	980			980
15	HP & SAFETY TRAINING FACTOR	7.5%	11	215			215
16	JOB CONDITION FACTOR	11.0%	16	315			315
17	SUBTOTAL		219	4,376	42	0	4,418
18	CONSTRUCTION EQUIPMENT	45.0%	7	138	1,831		1,969
19	SUBTOTAL		226	4,514	1,873	0	6,387
20	CONSTRUCTION SUPPORT COSTS	31.5%	71	1,423			1,423
21	SUBTOTAL		297	5,937	1,873	0	7,810
22	CRAFT SUPERVISION	15.0%	45	947			947
23	SUBTOTAL		342	6,884	1,873	0	8,757
24	LABOR FRINGES/PAYROLL TAXES	42.7%		2,939			2,939
25	SALES TAX	6.0%			112		112
26	SUBTOTAL		342	9,823	1,985	0	11,808
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%					0
28	SUBTOTAL						11,808
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%					0
30	SUBTOTAL						11,808
31	RMI ENGINEERING	4.0%					472
32	SUBTOTAL						12,280
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%					0
34	SUBTOTAL						12,280
35	FIELD WORK ADMINISTRATION	5.0%					614
36							12,894
37	ALL RISK INSURANCE	0.4%					52
38	SUBTOTAL						12,946
39	PERFORMANCE & PAYMENT BOND	0.0%					0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation						12,946

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMIPEB94.PE8

BUILDING GROUP A

WBS CODE 1.1.2.2.3.1

BUILDING REMEDIATION OPERATIONS

EQUIPMENT REMEDIATION

QUANTITY UM

SUB CONTRACTOR

MAN HOURS

LABOR

MATERIAL

RMI &
OTHER COSTS

UNIT TOTAL
RATE HOURS

CREW UNIT TOTAL
RATE COST COST

UNIT TOTAL
COST COST

UNIT TOTAL
COST COST

TOTAL
COST

3.7.0 CAMPBELL SAW FILTER BUILDING

Demo Equipment	2.8 ton	42.00	118	20.17	847.14	2,372	15.00	42			2,414
Free Release Equipment	.7 ton	35.00	25	20.17	705.95	494					494
TOTAL CAMPBELL SAW FILTER BUILDING			143			2,866		42		0 \$	2,908

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - Die Head Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9	DIE HEAD FILTER BUILDING	361	7,286	107	0	7,393
10						
11						
12						
13	SUBTOTAL DIRECTS	361	7,286	107	0	7,393
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	123	2,492		2,492
15	HP & SAFETY TRAINING FACTOR	7.5%	27	546		546
16	JOB CONDITION FACTOR	11.0%	40	801		801
17	SUBTOTAL		551	11,125	107	11,232
18	CONSTRUCTION EQUIPMENT	45.0%	17	350	4,656	5,006
19	SUBTOTAL		568	11,475	4,763	16,238
20	CONSTRUCTION SUPPORT COSTS	31.5%	179	3,612		3,612
21	SUBTOTAL		747	15,087	4,763	19,850
22	CRAFT SUPERVISION	15.0%	112	2,372		2,372
23	SUBTOTAL		859	17,459	4,763	22,222
24	LABOR FRINGES/PAYROLL TAXES	42.7%		7,455		7,455
25	SALES TAX	6.0%		286		286
26	SUBTOTAL		859	24,914	5,049	29,963
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					29,963
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					29,963
31	RMI ENGINEERING	4.0%				1,199
32	SUBTOTAL					31,162
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					31,162
35	FIELD WORK ADMINISTRATION	5.0%				1,558
36	SUBTOTAL					32,720
37	ALL RISK INSURANCE	0.4%				131
38	SUBTOTAL					32,851
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					32,851

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR							RMI &			
		MAN HOURS		CREW		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	UNIT RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.7.0 DIE HEAD FILTER BUILDING

Demo Equipment	7.1 ton	42.00	298	20.17	847.14	6,015	15.00	107			6,122
Free Release Equipment	1.8 ton	35.00	63	20.17	705.95	1,271					1,271
TOTAL DIE HEAD FILTER BUILDING			361			7,286		107		0	\$ 7,393

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "A" - NE Billet Storage

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	NORTHEAST BILLET STORAGE	686	13,836	203	0	14,039
11						
12						
13	SUBTOTAL DIRECTS	686	13,836	203	0	14,039
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	235	4,732		4,732
15	HP & SAFETY TRAINING FACTOR	7.5%	51	1,038		1,038
16	JOB CONDITION FACTOR	11.0%	75	1,522		1,522
17	SUBTOTAL		1,047	21,128	203	21,331
18	CONSTRUCTION EQUIPMENT	45.0%	33	666	8,842	9,508
19	SUBTOTAL		1,080	21,794	9,045	30,839
20	CONSTRUCTION SUPPORT COSTS	31.5%	340	6,858		6,858
21	SUBTOTAL		1,420	28,652	9,045	37,697
22	CRAFT SUPERVISION	15.0%	213	4,509		4,509
23	SUBTOTAL		1,633	33,161	9,045	42,206
24	LABOR FRINGES/PAYROLL TAXES	42.7%		14,160		14,160
25	SALES TAX	6.0%		543		543
26	SUBTOTAL		1,633	47,321	9,588	56,909
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					56,909
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					56,909
31	RMI ENGINEERING	4.0%				2,276
32	SUBTOTAL					59,185
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					59,185
35	FIELD WORK ADMINISTRATION	5.0%				2,959
36	SUBTOTAL					62,144
37	ALL RISK INSURANCE	0.4%				249
38	SUBTOTAL					62,393
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					62,393

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.3.1

BUILDING REMEDIATION OPERATIONS

EQUIPMENT REMEDIATION

QUANTITY UM

SUB CONTRACTOR

MAN HOURS

LABOR

MATERIAL

RMI &

OTHER COSTS

UNIT TOTAL

CREW UNIT TOTAL

UNIT TOTAL

UNIT TOTAL

TOTAL

RATE HOURS

RATE COST COST

COST COST

COST COST

COST

3.7.1 NORTHEAST BILLET STORAGE

Demo Equipment	13.5 ton	42.00	567	20.17	847.14	11,436	15.00	203			11,639
Free Release Equipment	3.4 ton	35.00	119	20.17	705.95	2,400					2,400
TOTAL NORTHEAST BILLET STORAGE			686			13,836		203		0	14,039

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A"

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1 NORTHWEST WAREHOUSE	11,339	228,698	85,645	0	314,343
2 RF-6 BUTLER BUILDING ADDITION	5,447	109,852	46,616	0	156,468
3 MAIN PLANT BUILDING	28,925	583,409	141,554	0	724,963
4 TOOL CRIB BUILDING	1,605	32,349	10,359	0	42,707
5 RUNOUT TABLE (COOLING) FILTER BUILDING	902	18,192	5,830	0	24,022
6 CAMPBELL SAW FILTER BUILDING	836	16,855	6,504	0	23,359
7 DIE HEAD FILTER BUILDING	1,380	27,814	9,131	0	36,945
8 RF-6 BUTLER BUILDING	13,556	273,392	100,116	0	373,508
9 RF-3 BUTLER BUILDING	1,666	33,598	11,346	0	44,944
10 OLD INCINERATOR FOUNDATION	79	1,590	760	0	2,350
11 ENCLOSED DOCK AND TRUCK RAMP	2,359	47,544	15,330	0	62,874
12 NORTHEAST BILLET STORAGE	3,811	76,867	27,423	0	104,290
13 SUBTOTAL DIRECTS	71,905	1,450,159	460,614	0	1,910,773
14 RADIOLOGICAL CONDITIONS FACTOR	34.2%	24,592	495,954		495,954
15 HP & SAFETY TRAINING FACTOR	7.5%	5,393	108,762		108,762
16 JOB CONDITION FACTOR	17.0%	12,224	246,527		246,527
17 SUBTOTAL		114,114	2,301,402	0	2,762,016
18 CONSTRUCTION EQUIPMENT	45.0%	3,594	72,494	963,137	1,035,631
19 SUBTOTAL		117,708	2,373,896	0	3,797,647
20 CONSTRUCTION SUPPORT COSTS	31.5%	37,078	747,863		747,863
21 SUBTOTAL		154,786	3,121,759	0	4,545,510
22 CRAFT SUPERVISION	15.0%	23,218	491,525		491,525
23 SUBTOTAL		178,004	3,613,284	0	5,037,035
24 LABOR FRINGES/PAYROLL TAXES	42.7%		1,542,872		1,542,872
25 SALES TAX	6.0%		85,425		85,425
26 SUBTOTAL		178,004	5,156,156	0	6,665,332
27 SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28 SUBTOTAL					6,665,332
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30 SUBTOTAL					6,665,332
31 RMI ENGINEERING	4.0%				266,613
32 SUBTOTAL					6,931,945
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					6,931,945
35 FIELD WORK ADMINISTRATION	5.0%				346,597
36					7,278,542
37 ALL RISK INSURANCE	0.4%				29,114
38 SUBTOTAL					7,307,656
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					7,307,656

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - NW Warehouse

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	NORTHWEST WAREHOUSE	11,339	228,698	85,645	0	314,343
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	11,339	228,698	85,645	0	314,343
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	3,878	78,215		78,215
15	HP & SAFETY TRAINING FACTOR	7.5%	850	17,152		17,152
16	JOB CONDITION FACTOR	17.0%	1,928	38,879		38,879
17	SUBTOTAL		17,995	362,944	85,645	448,589
18	CONSTRUCTION EQUIPMENT	45.0%	567	11,433	151,892	163,325
19	SUBTOTAL		18,562	374,377	237,537	611,914
20	CONSTRUCTION SUPPORT COSTS	31.5%	5,847	117,934		117,934
21	SUBTOTAL		24,409	492,311	237,537	729,848
22	CRAFT SUPERVISION	15.0%	3,661	77,503		77,503
23	SUBTOTAL		28,070	569,814	237,537	807,351
24	LABOR FRINGES/PAYROLL TAXES	42.7%		243,311		243,311
25	SALES TAX	6.0%		14,252		14,252
26	SUBTOTAL		28,070	813,125	251,789	1,064,914
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					1,064,914
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,064,914
31	RMI ENGINEERING	4.0%				42,597
32	SUBTOTAL					1,107,511
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,107,511
35	FIELD WORK ADMINISTRATION	5.0%				55,376
36						1,162,887
37	ALL RISK INSURANCE	0.4%				4,652
38	SUBTOTAL					1,167,539
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,167,539

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMIFEB94.FEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

SUB CONTRACTOR

R M I &
 OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		R M I & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	
3.01 NORTHWEST WAREHOUSE											
Containment & Setup	18,480	sf	.25	4,620	20.17	5.04	93,185	3.00	55,440		148,625
Apply Fixative Coating	26,896	sf	.01	269	20.17	.20	5,425	.19	5,110		10,535
Insulation	12,155	cf	.01	122	20.17	.20	2,452	.10	1,216		3,668
Rem Elect Distribution	185	cf	.20	37	20.17	4.03	746	.10	19		765
Install Temporary Power	18,460	sf	.02	277	20.17	.30	5,591	.50	9,240		14,831
Internal Misc. Steel	3.8	ton	30.00	114	20.17	605.10	2,299	15.00	57		2,356
Demo HVAC Systems	32	ton	18.00	576	20.17	363.06	11,618	15.00	480		12,098
Demo Exterior Walls	7,756	sf	.03	233	20.17	.61	4,693	.10	776		5,469
Demo Windows	157	cf	.10	16	20.17	2.02	317	.10	16		333
Demo Doors	314	cf	1.50	471	20.17	30.26	9,500	.10	31		9,531
Demo Roofing System	19,140	sf	.03	612	20.17	.65	12,354	.10	1,914		14,268
Demo Structural Steel	34.1	ton	40.00	1,364	20.17	806.80	27,512	15.00	512		28,024
Vacu-Blast Concrete Slab 1/4" Quote from Checker Industries --Judy Sheasley (800) 243-2537	18,480	sf	.10	1,848	20.17	2.02	37,274	.55	10,164		47,438
Demo Piping	18	ton	40.00	720	20.17	806.80	14,522	15.00	270		14,792
Cap Vents & Drains	1	ls	60.00	60	20.17	1,210.20	1,210	400.00	400		1,610
TOTAL NORTHWEST WAREHOUSE				11,339			228,698		85,645	0	\$ 314,343

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2

10-FEB-94

DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - RF-6 Butler Bldg Addn

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	RF-6 BUTLER BUILDING ADDITION	5,447	109,852	46,616	0	156,468
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	5,447	109,852	46,616	0	156,468
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,863	37,569		37,569
15	HP & SAFETY TRAINING FACTOR	7.5%	409	8,239		8,239
16	JOB CONDITION FACTOR	17.0%	926	18,675		18,675
17	SUBTOTAL		8,645	174,335	0	220,951
18	CONSTRUCTION EQUIPMENT	45.0%	272	5,492		78,451
19	SUBTOTAL		8,917	179,827	0	299,402
20	CONSTRUCTION SUPPORT COSTS	31.5%	2,809	56,658		56,658
21	SUBTOTAL		11,726	236,485	0	356,060
22	CRAFT SUPERVISION	15.0%	1,759	37,238		37,238
23	SUBTOTAL		13,485	273,723	0	393,298
24	LABOR FRINGES/PAYROLL TAXES	42.7%		116,880		116,880
25	SALES TAX	6.0%		7,175		7,175
26	SUBTOTAL		13,485	390,603	0	517,353
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					517,353
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					517,353
31	RMI ENGINEERING	4.0%				20,694
32	SUBTOTAL					538,047
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					538,047
35	FIELD WORK ADMINISTRATION	5.0%				26,902
36						564,949
37	ALL RISK INSURANCE	0.4%				2,260
38	SUBTOTAL					567,209
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					567,209

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:17 pm
 FILE NAME RMIFEB94.PEF

BUILDING GROUP A

WBS CODE 1.1.2.2.3.2

BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

SUB CONTRACTOR

RMI &

OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		
			UNIT RATE	TOTAL HOURS	UNIT RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST
Containment & Setup	10,000	sf	.25	2,500	20.17	5.04	50,425	3.00	30,000			80,425
Apply Fixative Coating	16,000	sf	.01	160	20.17	.20	3,227	.19	3,040			6,267
Insulation	7,067	cf	.01	71	20.17	.20	1,425	.10	707			2,132
Rem Elect Distribution	64	cf	.20	13	20.17	4.03	258	.10	6			264
Install Temporary Power	10,000	sf	.02	150	20.17	.30	3,026	.50	5,000			8,026
Internal Misc. Steel	1.9	ton	30.00	57	20.17	605.10	1,150	15.00	29			1,179
Demo HVAC Systems	1	ton	18.00	18	20.17	363.06	363	15.00	15			378
Demo Exterior Walls	5,600	sf	.03	168	20.17	.61	3,389	.10	560			3,949
Demo Doors	54	cf	1.50	81	20.17	30.26	1,634	.10	5			1,639
Demo Roofing System	10,400	sf	.03	333	20.17	.65	6,713	.10	1,040			7,753
Demo Structural Steel	16.9	ton	40.00	676	20.17	806.80	13,635	15.00	254			13,889
Vacu-Blast Concrete Slab 1/4"	10,000	sf	.10	1,000	20.17	2.02	20,170	.55	5,500			25,670
Demo Piping	4	ton	40.00	160	20.17	806.80	3,227	15.00	60			3,287
Cap Vents & Drains	1	ls	60.00	60	20.17	1,210.20	1,210	400.00	400			1,610
TOTAL RF-6 BUTLER BUILDING ADDITION				5,447			109,852		46,616			0 \$ 156,468

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - Main Plant Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	MAIN PLANT BUILDING	28,925	583,409	141,554	0	724,963
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	28,925	583,409	141,554	0	724,963
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	9,892	199,526		199,526
15	HP & SAFETY TRAINING FACTOR	7.5%	2,169	43,756		43,756
16	JOB CONDITION FACTOR	17.0%	4,917	99,180		99,180
17	SUBTOTAL		45,903	925,871	0	1,067,425
18	CONSTRUCTION EQUIPMENT	45.0%	1,446	29,165		416,642
19	SUBTOTAL		47,349	955,036	0	1,484,067
20	CONSTRUCTION SUPPORT COSTS	31.5%	14,915	300,836		300,836
21	SUBTOTAL		62,264	1,255,872	0	1,784,903
22	CRAFT SUPERVISION	15.0%	9,340	197,728		197,728
23	SUBTOTAL		71,604	1,453,600	0	1,982,631
24	LABOR FRINGES/PAYROLL TAXES	42.7%		620,687		620,687
25	SALES TAX	6.0%		31,742		31,742
26	SUBTOTAL		71,604	2,074,287	0	2,635,060
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					2,635,060
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					2,635,060
31	RMI ENGINEERING	4.0%				105,402
32	SUBTOTAL					2,740,462
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					2,740,462
35	FIELD WORK ADMINISTRATION	5.0%				137,023
36						2,877,485
37	ALL RISK INSURANCE	0.4%				11,510
38	SUBTOTAL					2,888,995
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					2,888,995

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:18 PM
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

3.03 MAIN PLANT BUILDING

	QUANTITY	UM	SUB CONTRACTOR									TOTAL COST
			MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST
Containment & Setup	28,562	sf	.25	7,141	20.17	5.04	144,024	3.00	85,686			229,710
Apply Fixative Coating	57,215	sf	.01	572	20.17	.20	11,540	.19	10,871			22,411
Insulation	10,578	cf	.01	106	20.17	.20	2,134	.10	1,058			3,192
Rem Elect Distribution	944	cf	.20	189	20.17	4.03	3,808	.10	94			3,902
Install Temporary Power	28,562	sf	.02	428	20.17	.30	8,641	.50	14,281			22,922
Internal Misc. Steel	17.9	ton	30.00	537	20.17	605.10	10,831	15.00	269			11,100
Demo HVAC Systems	91	ton	18.00	1,638	20.17	363.06	33,038	15.00	1,365			34,403
Demo Interior Walls	2,412	cf	1.30	3,136	20.17	26.22	63,245	.10	241			63,486
Demo Exterior Walls	31,704	sf	.04	1,268	20.17	.81	25,579	.10	3,170			28,749
Demo Masonry	14,352	sf	.04	574	20.17	.81	11,579	.10	1,435			13,014
Demo Windows	1,027	cf	.10	103	20.17	2.02	2,071	.10	103			2,174
Demo Doors	254	cf	1.50	381	20.17	30.26	7,685	.10	25			7,710
Demo Roofing System *The roof is a metal deck covered with a rubber, tar, and gravel build-up.*	25,511	sf	.07	1,658	20.17	1.31	33,446	.10	2,551			35,997
Demo Structural Steel	160.7	ton	40.00	6,428	20.17	806.80	129,653	15.00	2,411			132,064
Vacu-Blast Concrete Slab 1/4"	28,562	sf	.10	2,856	20.17	2.02	57,610	.55	15,709			73,319
Demo Piping	39	ton	40.00	1,560	20.17	806.80	31,465	15.00	585			32,050
Cap Vents & Drains	1	ls	200.00	200	20.17	4,034.00	4,034	1,100.00	1,100			5,134
Lube oils & grease	600	gal	.25	150	20.17	5.04	3,026	1.00	600			3,626
TOTAL MAIN PLANT BUILDING				28,925			583,409		141,554		0	\$ 724,963

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - Tool Crib Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	TOOL CRIB BUILDING	1,605	32,348	10,359	0	42,707
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	1,605	32,348	10,359	0	42,707
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	549	11,063		11,063
15	HP & SAFETY TRAINING FACTOR	7.5%	120	2,426		2,426
16	JOB CONDITION FACTOR	17.0%	273	5,499		5,499
17	SUBTOTAL		2,547	51,336	0	61,695
18	CONSTRUCTION EQUIPMENT	45.0%	80	1,617	21,484	23,101
19	SUBTOTAL		2,627	52,953	31,843	84,796
20	CONSTRUCTION SUPPORT COSTS	31.5%	828	16,684		16,684
21	SUBTOTAL		3,455	69,637	31,843	101,480
22	CRAFT SUPERVISION	15.0%	518	10,956		10,956
23	SUBTOTAL		3,973	80,593	31,843	112,436
24	LABOR FRINGES/PAYROLL TAXES	42.7%		34,413		34,413
25	SALES TAX	6.0%		1,911		1,911
26	SUBTOTAL		3,973	115,006	33,754	148,760
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					148,760
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					148,760
31	RMI ENGINEERING	4.0%				5,950
32	SUBTOTAL					154,710
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					154,710
35	FIELD WORK ADMINISTRATION	5.0%				7,736
36						162,446
37	ALL RISK INSURANCE	0.4%				650
38	SUBTOTAL					163,096
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					163,096

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:18 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A WBS CODE 1.1.2.2.3.2 BUILDING REMEDIATION OPERATIONS BUILDING REMEDIATION	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST			
3.04 TOOL CRIB BUILDING											
Containment & Setup	2,250	sf	.25	563	20.17	5.04	11,346	3.00	6,750		18,096
Apply Fixative Coating	3,050	sf	.01	31	20.17	.20	615	.19	580		1,195
Insulation	1,215	cf	.01	12	20.17	.20	245	.10	122		367
Rem Elect Distribution	20	cf	.20	4	20.17	4.03	81	.10	2		83
Install Temporary Power	2,250	sf	.02	34	20.17	.30	661	.50	1,125		1,806
Demo HVAC Systems	.7	ton	18.00	13	20.17	363.06	254	15.00	11		265
Demo Doors	54	cf	1.50	81	20.17	30.26	1,634	.10	5		1,639
Demo Roofing System	2,250	sf	.05	101	20.17	.91	2,042	.10	225		2,267
Demo Structural Steel	6.6	ton	40.00	264	20.17	806.80	5,325	15.00	99		5,424
Vacu-Blast Concrete Slab 1/4"	2,250	sf	.10	225	20.17	2.02	4,538	.55	1,238		5,776
Demo Piping	6.8	ton	40.00	272	20.17	805.80	5,486	15.00	102		5,588
Cap Vents & Drains	1	ls	5.00	5	20.17	100.85	101	100.00	100		201
TOTAL TOOL CRIB BUILDING				1,605			32,348		10,359	0	42,707

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - Runout Table Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	RUNOUT TABLE (COOLING) FILTER BUILDING	902	18,192	5,830	0	24,022
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	902	18,192	5,830	0	24,022
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	308	6,222		6,222
15	HP & SAFETY TRAINING FACTOR	7.5%	68	1,364		1,364
16	JOB CONDITION FACTOR	17.0%	153	3,093		3,093
17	SUBTOTAL		1,431	28,871	5,830	0
18	CONSTRUCTION EQUIPMENT	45.0%	45	909	12,083	
19	SUBTOTAL		1,476	29,780	17,913	0
20	CONSTRUCTION SUPPORT COSTS	31.5%	465	9,379		9,379
21	SUBTOTAL		1,941	39,159	17,913	0
22	CRAFT SUPERVISION	15.0%	291	6,160		6,160
23	SUBTOTAL		2,232	45,319	17,913	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		19,351		19,351
25	SALES TAX	6.0%		1,075		1,075
26	SUBTOTAL		2,232	64,670	18,988	0
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					83,658
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					83,658
31	RMI ENGINEERING	4.0%				3,346
32	SUBTOTAL					87,004
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					87,004
35	FIELD WORK ADMINISTRATION	5.0%				4,350
36						91,354
37	ALL RISK INSURANCE	0.4%				365
38	SUBTOTAL					91,719
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					91,719

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - Campbell Saw Filter Bldg

10-FEB-94

1	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
2						
3						
4						
5						
6	CAMPBELL SAW FILTER BUILDING	836	16,855	6,504	0	23,359
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	836	16,855	6,504	0	23,359
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	286	5,764		5,764
15	HP & SAFETY TRAINING FACTOR	7.5%	53	1,264		1,264
16	JOB CONDITION FACTOR	17.0%	142	2,865		2,865
17	SUBTOTAL		1,327	26,748	6,504	0
18	CONSTRUCTION EQUIPMENT	45.0%	42	843	11,194	12,037
19	SUBTOTAL		1,369	27,591	17,698	0
20	CONSTRUCTION SUPPORT COSTS	31.5%	431	8,689		8,689
21	SUBTOTAL		1,800	36,280	17,698	0
22	CRAFT SUPERVISION	15.0%	270	5,713		5,713
23	SUBTOTAL		2,070	41,993	17,698	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		17,931		17,931
25	SALES TAX	6.0%		1,062		1,062
26	SUBTOTAL		2,070	59,924	18,760	0
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					78,684
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					78,684
31	RMI ENGINEERING	4.0%				3,147
32	SUBTOTAL					81,831
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					81,831
35	FIELD WORK ADMINISTRATION	5.0%				4,092
36						85,923
37	ALL RISK INSURANCE	0.4%				344
38	SUBTOTAL					86,267
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					86,267

fm=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:26 PM
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.3.2

BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

SUB CONTRACTOR

RMI &

OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Containment & Setup	1,360	sf	.25	340	20.17	5.04	6,858	3.00	4,080			10,938
Apply Fixative Coating	2,853	sf	.01	29	20.17	.20	575	.19	542			1,117
Rem Elect Distribution	14	cf	.20	3	20.17	4.03	56	.10	1			57
Install Temporary Power	1,360	sf	.02	20	20.17	.30	411	.50	680			1,091
Internal Misc. Steel	.3	ton	30.00	9	20.17	605.10	182	15.00	5			187
Demo HVAC Systems	2	ton	18.00	36	20.17	363.06	726	15.00	30			756
Demo Exterior Walls	1,493	sf	.03	45	20.17	.61	903	.10	149			1,052
Demo Windows	12	cf	.10	1	20.17	2.02	24	.10	1			25
Demo Doors	24	cf	1.50	36	20.17	30.26	726	.10	2			728
Demo Roofing System	1,125	sf	.03	36	20.17	.65	726	.10	113			839
Demo Structural Steel	2.1	ton	40.00	84	20.17	806.80	1,694	15.00	32			1,726
Vacu-Blast Concrete Slab 1/4"	1,360	sf	.10	136	20.17	2.02	2,743	.55	748			3,491
Demo Piping	1.4	ton	40.00	56	20.17	806.80	1,130	15.00	21			1,151
Cap Vents & Drains	1	ls	5.00	5	20.17	100.85	101	100.00	100			201
TOTAL CAMPBELL SAW FILTER BUILDING				836			16,855		6,504		0	\$ 23,359

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - Die Head Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7	DIE HEAD FILTER BUILDING	1,380	27,814	9,131	0	36,945
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	1,380	27,814	9,131	0	36,945
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	472	9,512		9,512
15	HP & SAFETY TRAINING FACTOR	7.5%	104	2,086		2,086
16	JOB CONDITION FACTOR	17.0%	235	4,728		4,728
17	SUBTOTAL		2,191	44,140	9,131	53,271
18	CONSTRUCTION EQUIPMENT	45.0%	69	1,390	18,473	19,863
19	SUBTOTAL		2,260	45,530	27,604	73,134
20	CONSTRUCTION SUPPORT COSTS	31.5%	712	14,354		14,354
21	SUBTOTAL		2,972	59,884	27,604	87,488
22	CRAFT SUPERVISION	15.0%	446	9,437		9,437
23	SUBTOTAL		3,418	69,321	27,604	96,925
24	LABOR FRINGES/PAYROLL TAXES	42.7%		29,600		29,600
25	SALES TAX	6.0%		1,656		1,656
26	SUBTOTAL		3,418	98,921	29,260	128,181
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					128,181
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					128,181
31	RMI ENGINEERING	4.0%				5,127
32	SUBTOTAL					133,308
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					133,308
35	FIELD WORK ADMINISTRATION	5.0%				6,665
36						139,973
37	ALL RISK INSURANCE	0.4%				560
38	SUBTOTAL					140,533
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					140,533

fm=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS AHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:26 PM
 FILE NAME RMIFER94.PSE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

SUB CONTRACTOR

RMI &
OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
3.07 DIX HEAD FILTER BUILDING												
Containment & Setup	1,930	sf	.25	483	20.17	5.04	9,732	3.00	5,790			15,522
Apply Fixative Coating	1,660	sf	.01	17	20.17	.20	339	.19	319			658
Insulation	1,787	cf	.01	18	20.17	.20	360	.10	179			539
Rem Elect Distribution	20	cf	.20	4	20.17	4.03	81	.10	2			83
Install Temporary Power	1,930	sf	.02	29	20.17	.30	584	.50	965			1,549
Internal Misc. Steel	.8	ton	30.00	24	20.17	605.10	484	15.00	12			486
Demo HVAC Systems	1	ton	18.00	18	20.17	363.06	363	15.00	15			378
Demo Exterior Walls	3,129	sf	.03	94	20.17	.61	1,893	.10	313			2,206
Demo Windows	16	cf	.10	2	20.17	2.02	32	.10	2			34
Demo Doors	32	cf	1.50	48	20.17	30.26	968	.10	3			971
Demo Roofing System	2,293	sf	.03	73	20.17	.65	1,480	.10	229			1,709
Demo Structural Steel	7.3	ton	40.00	292	20.17	806.80	5,890	15.00	110			6,900
Vacu-Blast Concrete Slab 1/4"	1,930	sf	.10	193	20.17	2.02	3,893	.55	1,062			4,955
Demo Piping	2	ton	40.00	80	20.17	806.80	1,614	15.00	30			1,644
Cap Vents & Drains	1	ls	5.00	5	20.17	100.85	101	100.00	100			201
TOTAL DIX HEAD FILTER BUILDING				1,380			27,814		9,131	0	5	36,945

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - RF-6 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8	RF-6 BUTLER BUILDING	13,556	273,392	100,116	0	373,508
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	13,556	273,392	100,116	0	373,508
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	4,636	93,500		93,500
15	HP & SAFETY TRAINING FACTOR	7.5%	1,017	20,504		20,504
16	JOB CONDITION FACTOR	17.0%	2,305	46,477		46,477
17	SUBTOTAL		21,514	433,873	0	533,989
18	CONSTRUCTION EQUIPMENT	45.0%	678	13,667	181,576	195,243
19	SUBTOTAL		22,192	447,540	281,692	729,232
20	CONSTRUCTION SUPPORT COSTS	31.5%	6,990	140,988		140,988
21	SUBTOTAL		29,182	588,528	281,692	870,220
22	CRAFT SUPERVISION	15.0%	4,377	92,661		92,661
23	SUBTOTAL		33,559	681,189	281,692	962,881
24	LABOR FRINGES/PAYROLL TAXES	42.7%		290,868		290,868
25	SALES TAX	6.0%		16,902		16,902
26	SUBTOTAL		33,559	972,057	298,594	1,270,651
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					1,270,651
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,270,651
31	RMI ENGINEERING	4.0%				50,826
32	SUBTOTAL					1,321,477
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,321,477
35	FIELD WORK ADMINISTRATION	5.0%				66,074
36	SUBTOTAL					1,387,551
37	ALL RISK INSURANCE	0.4%				5,550
38	SUBTOTAL					1,393,101
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,393,101

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:26 pm
 FILE NAME RMIFEB94.BEE

BUILDING GROUP A

WBS CODE 1.1.2.2.3.2

BUILDING REMEDIATION OPERATIONS

BUILDING REMEDIATION

	QUANTITY	UM	MAN HOURS		SUB CONTRACTOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.10 RF-6 BUTLER BUILDING

Containment & Setup	21,742	sf	.25	5,436	20.17	5.04	109,634	3.00	65,226			174,860
Apply Fixative Coating	23,700	sf	.01	237	20.17	.20	4,780	.19	4,503			9,283
Insulation	17,274	cf	.01	173	20.17	.20	3,484	.10	1,727			5,211
Rem Elect Distribution	128	cf	.20	26	20.17	4.03	516	.10	13			529
Install Temporary Power	21,742	sf	.02	326	20.17	.30	6,578	.50	10,871			17,449
Internal Misc. Steel	4.9	ton	30.00	147	20.17	605.10	2,965	15.00	74			3,039
Demo HVAC Systems	2	ton	18.00	36	20.17	363.06	726	15.00	30			756
Demo Interior Walls	702	cf	1.30	913	20.17	26.22	18,407	.10	70			18,477
Demo Exterior Walls	9,813	sf	.03	294	20.17	.61	5,938	.10	981			6,919
Demo Windows	50	cf	.10	5	20.17	2.02	101	.10	5			106
Demo Doors	69	cf	1.50	104	20.17	30.26	2,088	.10	7			2,095
Demo Flooring	7,500	sf	.01	60	20.17	.16	1,210	.10	750			1,960
Demo Roofing System	23,140	sf	.05	1,111	20.17	.97	22,403	.10	2,314			24,717
Demo Structural Steel	44.1	ton	40.00	1,764	20.17	806.80	35,580	15.00	662			36,242
Vacu-Blast Concrete Slab 1/4"	21,742	sf	.10	2,174	20.17	2.02	43,854	.55	11,958			55,812
Demo Piping	15	ton	40.00	600	20.17	806.80	12,102	15.00	225			12,327
Cap Vents & Drains	1	ls	150.00	150	20.17	3,025.50	3,026	700.00	700			3,726
TOTAL RF-6 BUTLER BUILDING				13,556			273,392		100,116			373,508

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - RF-3 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9	RF-3 BUTLER BUILDING	1,666	33,598	11,346	0	44,944
10						
11						
12						
13	SUBTOTAL DIRECTS	1,666	33,598	11,346	0	44,944
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	570	11,491		11,491
15	HP & SAFETY TRAINING FACTOR	7.5%	125	2,520		2,520
16	JOB CONDITION FACTOR	17.0%	283	5,712		5,712
17	SUBTOTAL		2,644	53,321	11,346	64,667
18	CONSTRUCTION EQUIPMENT	45.0%	83	1,680	22,314	23,994
19	SUBTOTAL		2,727	55,001	33,660	88,631
20	CONSTRUCTION SUPPORT COSTS	31.5%	859	17,326		17,326
21	SUBTOTAL		3,586	72,327	33,660	105,987
22	CRAFT SUPERVISION	15.0%	538	11,389		11,389
23	SUBTOTAL		4,124	83,716	33,660	117,376
24	LABOR FRINGES/PAYROLL TAXES	42.7%		35,747		35,747
25	SALES TAX	6.0%		2,020		2,020
26	SUBTOTAL		4,124	119,463	35,680	155,143
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					155,143
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					155,143
31	RMI ENGINEERING	4.0%				6,206
32	SUBTOTAL					161,349
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					161,349
35	FIELD WORK ADMINISTRATION	5.0%				8,067
36						169,416
37	ALL RISK INSURANCE	0.4%				678
38	SUBTOTAL					170,094
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					170,094

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:26 pm
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A WBS CODE 1.1.2.2.3.2 BUILDING REMEDIATION OPERATIONS BUILDING REMEDIATION	QUANTITY	UM	SUB CONTRACTOR									R M I & OTHER COSTS		
			MAN HOURS		LABOR			MATERIAL		UNIT COST	TOTAL COST	TOTAL COST		
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST					
3.11 RF-3 BUTLER BUILDING														
Containment & Setup	2,166	sf	.25	542	20.17	5.04	10,922	3.00	6,498				17,420	
Apply Fixative Coating	4,340	sf	.01	43	20.17	.20	875	.19	825				1,700	
Insulation	4,368	cf	.01	44	20.17	.20	881	.10	437				1,318	
Rem Elect Distribution	16	cf	.20	3	20.17	4.03	65	.10	2				67	
Install Temporary Power	2,166	sf	.02	32	20.17	.30	655	.50	1,083				1,738	
Internal Misc. Steel	.9	ton	30.00	27	20.17	605.10	545	15.00	14				559	
Demo HVAC Systems	2	ton	18.00	36	20.17	363.06	726	15.00	30				756	
Demo Exterior Walls	5,665	sf	.03	170	20.17	.61	3,428	.10	567				3,995	
Demo Windows	16	cf	.10	2	20.17	2.02	32	.10	2				34	
Demo Doors	32	cf	1.50	48	20.17	30.26	968	.10	3				971	
Demo Roofing System	3,510	sf	.03	112	20.17	.65	2,265	.10	351				2,616	
Demo Structural Steel	7.5	ton	40.00	300	20.17	806.80	6,051	15.00	113				6,164	
Vacu-Blast Concrete Slab 1/4"	2,166	sf	.10	217	20.17	2.02	4,369	.55	1,191				5,560	
Demo Piping	2	ton	40.00	80	20.17	806.80	1,614	15.00	30				1,644	
Cap Vents & Drains	1	ls	10.00	10	20.17	201.70	202	200.00	200				402	
TOTAL RF-3 BUTLER BUILDING				1,666			33,598		11,346			0 5	44,944	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GHROUP "A" - Old Incinerator Foundation

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	OLD INCINERATOR FOUNDATION	79	1,590	760	0	2,350
11						
12						
13	SUBTOTAL DIRECTS	79	1,590	760	0	2,350
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	27	544		544
15	HP & SAFETY TRAINING FACTOR	7.5%	6	119		119
16	JOB CONDITION FACTOR	17.0%	13	270		270
17	SUBTOTAL		125	2,523	760	3,283
18	CONSTRUCTION EQUIPMENT	45.0%	4	79	1,056	1,135
19	SUBTOTAL		129	2,602	1,816	4,418
20	CONSTRUCTION SUPPORT COSTS	31.5%	41	825		825
21	SUBTOTAL		170	3,427	1,816	5,243
22	CRAFT SUPERVISION	15.0%	26	549		549
23	SUBTOTAL		196	3,976	1,816	5,792
24	LABOR FRINGES/PAYROLL TAXES	42.7%		1,698		1,698
25	SALES TAX	6.0%		109		109
26	SUBTOTAL		196	5,674	1,925	7,599
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					7,599
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					7,599
31	RMI ENGINEERING	4.0%				304
32	SUBTOTAL					7,903
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					7,903
35	FIELD WORK ADMINISTRATION	5.0%				395
36						8,298
37	ALL RISK INSURANCE	0.4%				33
38	SUBTOTAL					8,331
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,331

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WSS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 8 2:26 PM
 FILE NAME RMIFEB94.PE

BUILDING GROUP A

WBS CODE 1.1.2.2.3.2

BUILDING REMEDIATION OPERATIONS

BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						R M I & OTHER COSTS			
		MAN HOURS		LABOR			MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.12 OLD INCINERATOR FOUNDATION

Containment & Setup	200	sf	.25	50	20.17	5.04	1,009	3.00	600		1,609
Apply Fixative Coating	200	sf	.01	2	20.17	.20	40	.19	38		78
Internal Misc. Steel	.1	ton	30.00	3	20.17	605.10	61	15.00	2		63
Demo Masonry	96	sf	.04	4	20.17	.81	77	.10	10		87
Vacu-Blast Concrete Slab 1/4"	200	sf	.10	20	20.17	2.02	403	.55	110		513
TOTAL OLD INCINERATOR FOUNDATION				79			1,590		750	0	2,350

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - Enclosed Dock & Truck Ramp

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11	ENCLOSED DOCK AND TRUCK RAMP	2,359	47,544	15,330	0	62,874
12						
13	SUBTOTAL DIRECTS	2,359	47,544	15,330	0	62,874
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	807	16,260		16,260
15	HP & SAFETY TRAINING FACTOR	7.5%	177	3,566		3,566
16	JOB CONDITION FACTOR	17.0%	401	8,082		8,082
17	SUBTOTAL		3,744	75,452	15,330	90,782
18	CONSTRUCTION EQUIPMENT	45.0%	118	2,377	31,576	33,953
19	SUBTOTAL		3,862	77,829	46,906	124,735
20	CONSTRUCTION SUPPORT COSTS	31.5%	1,217	24,523		24,523
21	SUBTOTAL		5,079	102,352	46,906	149,259
22	CRAFT SUPERVISION	15.0%	762	16,116		16,113
23	SUBTOTAL		5,841	118,468	46,906	165,374
24	LABOR FRINGES/PAYROLL TAXES	42.7%		50,586		50,586
25	SALES TAX	6.0%		2,814		2,814
26	SUBTOTAL		5,841	169,054	49,720	218,774
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					218,774
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					218,774
31	RMI ENGINEERING	4.0%				8,751
32	SUBTOTAL					227,525
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					227,525
35	FIELD WORK ADMINISTRATION	5.0%				11,376
36						238,901
37	ALL RISK INSURANCE	0.4%				956
38	SUBTOTAL					239,857
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					239,857

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:26 pm
 FILE NAME RMIFEB94.PES

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

SUB CONTRACTOR

R M I &
 OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		R M I & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
3.13 ENCLOSED DOCK AND TRUCK RAMP												
Containment & Setup	3,051	sf	.25	763	20.17	5.04	15,385	3.00	9,153			24,538
Apply Fixative Coating	3,051	sf	.01	31	20.17	.20	615	.19	580			1,195
Rem Elect Distribution	18	cf	.20	4	20.17	4.03	73	.10	2			75
Install Temporary Power	3,051	sf	.02	46	20.17	.30	923	.50	1,526			2,449
Internal Misc. Steel	1	ton	30.00	30	20.17	605.10	605	15.00	15			620
Demo Exterior Walls	7,535	sf	.03	226	20.17	.61	4,559	.10	754			5,313
Demo Doors	125	cf	1.50	188	20.17	30.26	3,782	.10	13			3,795
Demo Roofing System	7,602	sf	.05	365	20.17	.97	7,360	.10	760			8,120
Demo Structural Steel	9.7	ton	40.00	388	20.17	806.80	7,826	15.00	146			7,972
Vacu-Blast Concrete Slab 1/4"	3,051	sf	.10	305	20.17	2.02	6,154	.55	1,678			7,832
Demo Piping	.2	ton	40.00	8	20.17	806.80	161	15.00	3			164
Cap Vents & Drains	1	ls	5.00	5	20.17	100.85	101	700.00	700			801
TOTAL ENCLOSED DOCK AND TRUCK RAMP				2,359			47,544		15,330		0	62,874

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "A" - NE Billet Storage

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST	
		MHRS	LABOR	MATERIAL			
DIRECT COSTS							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12	NORTHEAST BILLET STORAGE		3,811	76,867	27,423	0	104,290
13	SUBTOTAL DIRECTS		3,811	76,867	27,423	0	104,290
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,303	26,289			26,289
15	HP & SAFETY TRAINING FACTOR	7.5%	286	5,765			5,765
16	JOB CONDITION FACTOR	17.0%	648	13,067			13,067
17	SUBTOTAL		6,048	121,988	27,423	0	149,411
18	CONSTRUCTION EQUIPMENT	45.0%	191	3,843	51,052		54,895
19	SUBTOTAL		6,239	125,831	78,475	0	204,306
20	CONSTRUCTION SUPPORT COSTS	31.5%	1,965	39,634			39,634
21	SUBTOTAL		8,204	165,465	78,475	0	243,940
22	CRAFT SUPERVISION	15.0%	1,231	26,060			26,060
23	SUBTOTAL		9,435	191,525	78,475	0	270,000
24	LABOR FRINGES/PAYROLL TAXES	42.7%		81,781			81,781
25	SALES TAX	6.0%			4,709		4,709
26	SUBTOTAL		9,435	273,306	83,184	0	356,490
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%					0
28	SUBTOTAL						356,490
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%					0
30	SUBTOTAL						356,490
31	RMI ENGINEERING	4.0%					14,260
32	SUBTOTAL						370,750
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%					0
34	SUBTOTAL						370,750
35	FIELD WORK ADMINISTRATION	5.0%					18,538
36							389,288
37	ALL RISK INSURANCE	0.4%					1,557
38	SUBTOTAL						390,845
39	PERFORMANCE & PAYMENT BOND	0.0%					0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation						390,845

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:25 PM
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR									TOTAL COST
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.14 NORTHEAST BILLET STORAGE

Containment & Setup	5,750	sf	.25	1,438	20.17	5.04	28,994	3.00	17,250	46,244
Apply Fixative Coating	10,600	sf	.01	106	20.17	.20	2,138	.19	2,014	4,152
Insulation	4,297	cf	.01	43	20.17	.20	867	.10	430	1,297
Rem Elect Distribution	41	cf	.20	8	20.17	4.03	165	.10	4	169
Install Temporary Power	5,750	sf	.02	86	20.17	.30	1,740	.50	2,875	4,615
Internal Misc. Steel	2.1	ton	30.00	63	20.17	605.10	1,271	15.00	32	1,303
Demo HVAC Systems	1	ton	18.00	18	20.17	363.06	363	15.00	15	378
Demo Exterior Walls	4,620	sf	.03	139	20.17	.61	2,796	.10	462	3,258
Demo Doors	100	cf	1.50	150	20.17	30.26	3,026	.10	10	3,036
Demo Roofing System	5,980	sf	.03	191	20.17	.65	3,860	.10	598	4,458
Demo Structural Steel	19.1	ton	40.00	764	20.17	806.80	15,410	15.00	287	15,697
Vacu-Blast Concrete Slab 1/4"	5,750	sf	.10	575	20.17	2.02	11,598	.55	3,163	14,761
Demo Piping	5.5	ton	40.00	220	20.17	806.80	4,437	15.00	83	4,520
Cap Vents & Drains	1	ls	10.00	10	20.17	201.70	202	200.00	200	402
TOTAL NORTHEAST BILLET STORAGE				3,811			76,867		27,423	0 \$ 104,290

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WM - HANDLING & PACKAGING
BUILDING GROUP "A"

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1 NORTHWEST WAREHOUSE	0	0	0	219,874	219,874
2 RF-6 BUTLER BUILDING ADDITION	0	0	0	134,060	134,060
3 MAIN PLANT BUILDING	0	0	0	1,047,851	1,047,851
4 TOOL CRIB BUILDING	0	0	0	27,949	27,949
5 RUNOUT TABLE (COOLING) FILTER BUILDING	0	0	0	12,455	12,455
6 CAMPBELL SAW FILTER BUILDING	0	0	0	8,677	8,677
7 DIE HEAD FILTER BUILDING	0	0	0	20,512	20,512
8 RF-6 BUTLER BUILDING	0	0	0	455,070	455,070
9 RF-3 BUTLER BUILDING	0	0	0	31,846	31,846
10 NORTHEAST BILLET STORAGE	0	0	0	45,923	45,923
11					
12					
13 SUBTOTAL DIRECTS	0	0	0	2,004,217	2,004,217
14 RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15 HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16 JOB CONDITION FACTOR	0.0%	0	0		0
17 SUBTOTAL	0	0	0	2,004,217	2,004,217
18 CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19 SUBTOTAL	0	0	0	2,004,217	2,004,217
20 CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21 SUBTOTAL	0	0	0	2,004,217	2,004,217
22 CRAFT SUPERVISION	0.0%	0	0		0
23 SUBTOTAL	0	0	0	2,004,217	2,004,217
24 LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25 SALES TAX	0.0%	0	0		0
26 SUBTOTAL	0	0	0	2,004,217	2,004,217
27 SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28 SUBTOTAL					2,004,217
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30 SUBTOTAL					2,004,217
31 RMI ENGINEERING	0.0%				0
32 SUBTOTAL					2,004,217
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					2,004,217
35 FIELD WORK ADMINISTRATION	0.0%				0
36 SUBTOTAL					2,004,217
37 ALL RISK INSURANCE	0.0%				0
38 SUBTOTAL					2,004,217
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					2,004,217

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - NW Warehouse

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	NORTHWEST WAREHOUSE	0	0	0	219,874	219,874
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	219,874	219,874
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	219,874	219,874
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	219,874	219,874
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	219,874	219,874
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	219,874	219,874
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	219,874	219,874
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					219,874
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					219,874
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					219,874
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					219,874
35	FIELD WORK ADMINISTRATION	0.0%				0
36						219,874
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					219,874
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					219,874

fm=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:27 pm
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.4.1

WASTE MANAGEMENT

HANDLING AND PACKAGING

QUANTITY UM

SUB CONTRACTOR

MAN HOURS

UNIT TOTAL
 RATE HOURS

LABOR

CREW UNIT TOTAL
 RATE COST COST

MATERIAL

UNIT TOTAL
 COST COST

RMI &

OTHER COSTS

UNIT TOTAL
 COST COST

TOTAL
 COST

3.01 NORTHWEST WAREHOUSE

Hndl & Pack SeaLand Containers	33	ea							3,564	117,612	117,612
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack B-25 Containers	96	ea							473	45,408	45,408
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack 55 Gallon Drums	328	ea							56	18,368	18,368
Copper Hydroxide											
Hndl & Pack 55 Gallon Drums	88	ea							56	4,928	4,928
Floor Sweepings											
Hndl & Pack 55 Gallon Drums	360	ea							56	20,160	20,160
Oils											
Hndl & Pack 55 Gallon Drums	17	ea							56	952	952
Spent Radiological Blast Material											
Hndl & Pack 55 Gallon Drums	297	ea									
Existing											
Sales Tax	6	pct							207,428	12,446	12,446
TOTAL NORTHWEST WAREHOUSE			0			0			0	219,874	\$ 219,874

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - RF-6 Butler Bldg Addn

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	RF-6 BUTLER BUILDING ADDITION	0	0	0	134,060	134,060
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	134,060	134,060
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	134,060	134,060
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	134,060	134,060
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	134,060	134,060
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	134,060	134,060
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	134,060	134,060
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					134,060
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					134,060
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					134,060
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					134,060
35	FIELD WORK ADMINISTRATION	0.0%				0
36						134,060
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					134,060
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					134,060

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 8 2:27 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS			
		MAN HOURS		LABOR			MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST

3.02 RF-6 BUTLER BUILDING ADDITION

Hndl & Pack SeaLand Containers	13	ea							3,564	46,332	46,332	
Quantity per "BURIAL BOX ESTIMATE" rev 5 9/13/93												
Hndl & Pack B-25 Containers	148	ea							473	70,004	70,004	
Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93												
Hndl & Pack 55 Gallon Drums Insulation	2	ea							56	112	112	
Hndl & Pack 55 Gallon Drums Filters	18	ea							56	1,008	1,008	
Hndl & Pack 55 Gallon Drums Sandblast Sand	4	ea							56	224	224	
Hndl & Pack 55 Gallon Drums Wood	40	ea							56	2,240	2,240	
Hndl & Pack 55 Gallon Drums Miscellaneous	108	ea							56	6,048	6,048	
Hndl & Pack 55 Gallon Drums Spent Radiological Blast Material	9	ea							56	504	504	
Sales Tax	6	pct								126,472	7,588	7,588
TOTAL RF-6 BUTLER BUILDING ADDITION			0			0			0	134,060	\$ 134,060	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - Main Plant Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	MAIN PLANT BUILDING	0	0	0	1,047,851	1,047,851
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,047,851	1,047,851
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,047,851	1,047,851
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,047,851	1,047,851
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,047,851	1,047,851
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,047,851	1,047,851
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	1,047,851	1,047,851
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					1,047,851
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,047,851
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,047,851
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,047,851
35	FIELD WORK ADMINISTRATION	0.0%				0
36						1,047,851
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,047,851
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,047,851

fm=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

EMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 8 2:21 PM
 FILE NAME RMIFES94.PEE

BUILDING GROUP A

SUBCONTRACTOR

RMI &

WBS CODE 1.1.2.2.4.1

WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	MAN HOURS		CREW		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	UNIT RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.03 MAIN PLANT BUILDING

Sales Tax

5 pct

986,539 59,312 59,312

TOTAL MAIN PLANT BUILDING

1,047,851 \$ 1,047,851

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - Tool Crib Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	TOOL CRIB BUILDING	0	0	0	27,949	27,949
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	27,949	27,949
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	27,949	27,949
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	27,949	27,949
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	27,949	27,949
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	27,949	27,949
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	27,949	27,949
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					27,949
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					27,949
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					27,949
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					27,949
35	FIELD WORK ADMINISTRATION	0.0%				0
36						27,949
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					27,949
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					27,949

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:27 pm
 FILE NAME RMIFEB94.PSE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR									
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.04 TOOL CRIB BUILDING

Hndl & Pack SeaLand Containers	7	ea								3,564	24,948	24,948
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Hndl & Pack B-25 Containers	3	ea								473	1,419	1,419
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Sales Tax	6	pct								26,367	1,582	1,582
TOTAL TOOL CRIB BUILDING											27,949	5 27,949

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - Runout Table Filter Bldg

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRs	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	RUNOUT TABLE (COOLING) FILTER BUILDING	0	0	0	12,455	12,455
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	12,455	12,455
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	12,455	12,455
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	12,455	12,455
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	12,455	12,455
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	12,455	12,455
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	12,455	12,455
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					12,455
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					12,455
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					12,455
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					12,455
35	FIELD WORK ADMINISTRATION	0.0%				0
36						12,455
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					12,455
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					12,455

fm=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:27 PM
 FILE NAME RMIPE94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.4.1

WASTE MANAGEMENT

HANDLING AND PACKAGING

SUB CONTRACTOR

RMI &

OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.05 RUNOUT TABLE (COOLING) FILTER BUILDING

Hndl & Pack Sealand Containers	3	ea								3,564	10,692	10,692
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Hndl & Pack B-25 Containers	2	ea								473	946	946
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Hndl & Pack 55 Gallon Drums	2	ea								56	112	112
Spent Radiological Blast Material												
Sales Tax	6	pct								11,750	705	705
TOTAL RUNOUT TABLE (COOLING) FILTER BUILDING											12,455	\$ 12,455

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - Campbell Saw Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	CAMPBELL SAW FILTER BUILDING	0	0	0	8,677	8,677
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	8,677	8,677
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	8,677	8,677
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	8,677	8,677
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	8,677	8,677
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	8,677	8,677
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	8,677	8,677
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					8,677
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,677
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					8,677
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,677
35	FIELD WORK ADMINISTRATION	0.0%				0
36						8,677
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					8,677
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,677

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:27 pm
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.4.1

WASTE MANAGEMENT

HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR									
		MAN HOURS		LABOR			MATERIAL		R M I & OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.06 CAMPBELL SAW FILTER BUILDING

Hndl & Pack SeaLand Containers	2	ea								3,564	7,128	7,128
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Hndl & Pack B-25 Containers	2	ea								473	946	946
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 6/13/93												
Hndl & Pack 55 Gallon Drums	2	ea								56	112	112
Spent Radiological Blast Material												
Sales Tax	6	pct								8,186	491	491
TOTAL CAMPBELL SAW FILTER BUILDING											8,677	8,677

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - Die Head Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7	DIE HEAD FILTER BUILDING	0	0	0	20,512	20,512
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	20,512	20,512
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	20,512	20,512
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	20,512	20,512
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	20,512	20,512
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	20,512	20,512
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	20,512	20,512
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					20,512
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					20,512
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					20,512
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					20,512
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					20,512
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					20,512
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					20,512

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:27 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						R M I &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.07 DIE HEAD FILTER BUILDING

Hndl & Pack SeaLand Containers	5	ea							3,564	17,820	17,820
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack B-25 Containers	3	ea							473	1,419	1,419
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack 55 Gallon Drums	2	ea							56	112	112
Spent Radiological Blast Material											
Sales Tax	6	pct							19,351	1,161	1,161
TOTAL DIE HEAD FILTER BUILDING									0	20,512	\$ 20,512

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - RF-6 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8	RF-6 BUTLER BUILDING	0	0	0	455,070	455,070
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	455,070	455,070
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	455,070	455,070
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	455,070	455,070
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	455,070	455,070
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	455,070	455,070
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL	0	0	0	455,070	455,070
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					455,070
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					455,070
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					455,070
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					455,070
35	FIELD WORK ADMINISTRATION	0.0%				0
36						455,070
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					455,070
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					455,070

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:27 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.4.1

WASTE MANAGEMENT

HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.10 RF-6 BUTLER BUILDING

Hndl & Pack Sealand Containers	47	ea							3,564	167,508	167,508
Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93											
Hndl & Pack B-25 Containers	151	ea							473	71,423	71,423
Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93											
Hndl & Pack B-25 Containers	300	ea							473	141,900	141,900
Overpack of Unsampled Residues											
Hndl & Pack 55 Gallon Drums	121	ea							73	8,825	8,825
Depleted Residues - Non Recoverable											
Hndl & Pack 55 Gallon Drums	50	ea							73	3,647	3,647
Depleted Enriched Residues - Unsampled											
Hndl & Pack 55 Gallon Drums	66	ea							56	3,696	3,696
Asbestos											
Hndl & Pack 55 Gallon Drums	264	ea							56	14,784	14,784
Plastics											
Hndl & Pack 55 Gallon Drums	4	ea							56	224	224
Cardboard / Paper											
Hndl & Pack 55 Gallon Drums	72	ea							56	4,032	4,032
Gloves & Coveralls											
Hndl & Pack 55 Gallon Drums	10	ea							56	560	560
Sandblast Sand											
Hndl & Pack 55 Gallon Drums	208	ea							56	11,648	11,648
Waste Residues											
Hndl & Pack 55 Gallon Drums	19	ea							56	1,064	1,064
Spent Radiological Blast Material											
Sales Tax	6	pct							429.310	25,759	25,759
TOTAL RF-6 BUTLER BUILDING			0		0			0		455,070	\$ 455,070

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING & PACKAGING
BUILDING GROUP "A" - RF-3 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9	RF-3 BUTLER BUILDING	0	0	0	31,846	31,846
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	31,846	31,846
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	31,846	31,846
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	31,846	31,846
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	31,846	31,846
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	31,846	31,846
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	31,846	31,846
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					31,846
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					31,846
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					31,846
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					31,846
35	FIELD WORK ADMINISTRATION	0.0%				0
36						31,846
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					31,846
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					31,846

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 pm
 FILE NAME RMI/FEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR							R M I &		TOTAL COST
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.11 RF-3 BUTLER BUILDING

Hndl & Pack SeaLand Containers	8	ea								3,564	28,512	28,512
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Hndl & Pack B-25 Containers	3	ea								473	1,419	1,419
Quantity per "BURIAL BOX ESTIMATE"												
rev 6 9/13/93												
Hndl & Pack 55 Gallon Drums	2	ea								56	112	112
Spent Radiological Blast Material												
Sales Tax	6	pct								30,043	1,803	1,803
TOTAL RF-3 BUTLER BUILDING				0						0	31,846	\$ 31,846

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT -- HANDLING & PACKAGING
BUILDING GROUP "A" -- NE Billet Storage

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	NORTHEAST BILLET STORAGE	0	0	0	45,923	45,923
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	45,923	45,923
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	45,923	45,923
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	45,923	45,923
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	45,923	45,923
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	45,923	45,923
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	45,923	45,923
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					45,923
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					45,923
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					45,923
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					45,923
35	FIELD WORK ADMINISTRATION	0.0%				0
36						45,923
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					45,923
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					45,923

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 pm
 FILE NAME RMIFEB94.PSE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.14 NORTHEAST BILLET STORAGE

Hndl & Pack SeaLand Containers	11	ea								3,564	39,204	39,204
Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93												
Hndl & Pack B-25 Containers	8	ea								473	3,784	3,784
Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93												
Hndl & Pack 55 Gallon Drums Sandblast Sand	6	ea								56	336	336
Sales Tax	6	pct								43,324	2,599	2,599
TOTAL NORTHEAST BILLET STORAGE										0	45,923	45,923

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WM - SHIPMENTS & DISPOSAL
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	NORTHWEST WAREHOUSE	0	0	0	842,058	842,058
2	RF-6 BUTLER BUILDING ADDITION	0	0	0	404,726	404,726
3	MAIN PLANT BUILDING	0	0	0	2,962,618	2,962,618
4	TOOL CRIB BUILDING	0	0	0	100,429	100,429
5	RUNOUT TABLE (COOLING) FILTER BUILDING	0	0	0	44,285	44,285
6	CAMPBELL SAW FILTER BUILDING	0	0	0	30,520	30,520
7	DIE HEAD FILTER BUILDING	0	0	0	73,173	73,173
8	RF-6 BUTLER BUILDING	0	0	0	1,370,931	1,370,931
9	RF-3 BUTLER BUILDING	0	0	0	114,468	114,468
10	NORTHEAST BILLET STORAGE	0	0	0	163,101	163,101
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	6,106,309	6,106,309
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	6,106,309	6,106,309
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	6,106,309	6,106,309
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	6,106,309	6,106,309
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	6,106,309	6,106,309
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	6,106,309	6,106,309
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					6,106,309
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					6,106,309
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					6,106,309
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					6,106,309
35	FIELD WORK ADMINISTRATION	0.0%				0
36						6,106,309
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					6,106,309
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					6,106,309

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT -- SHIPMENTS & DISPOSAL
BUILDING GROUP "A" -- NW Warehouse

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	NORTHWEST WAREHOUSE	0	0	0	842,058	842,058
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	842,058	842,058
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	842,058	842,058
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	842,058	842,058
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	842,058	842,058
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	842,058	842,058
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	842,058	842,058
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					842,058
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					842,058
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					842,058
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					842,058
35	FIELD WORK ADMINISTRATION	0.0%				0
36						842,058
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					842,058
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					842,058

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 8 2:28 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A

WBS CODE 1.1.2.2.4.3

WASTE MANAGEMENT

SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						R M I &		TOTAL COST
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.01 NORTHWEST WAREHOUSE

Ship & Dispose S/L Containers	33	ea							13,765	454,245	454,245
Ship & Dispose B-12v Container	297	ea						680	201,960	201,960	
Ship & Dispose B-25 Containers	96	ea						1,358	130,368	130,368	
Ship & Dispose 55 Gallon Drums	164	ea						137	22,468	22,468	
Ship & Dispose 55 Gallon Drums	44	ea						137	6,028	6,028	
Ship & Dispose 55 Gallon Drums	180	ea						137	24,660	24,660	
Ship & Dispose 55 Gallon Drums	17	ea						137	2,329	2,329	

TOTAL NORTHWEST WAREHOUSE

0

0

0

842,058 \$ 842,058

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS & DISPOSAL
BUILDING GROUP "A" - RF-6 Butler Bldg Addn

10-FEB-94

1	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
		DIRECT COSTS				
2	RF-6 BUTLER BUILDING ADDITION	0	0	0	404,726	404,726
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	404,726	404,726
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	404,726	404,726
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	404,726	404,726
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	404,726	404,726
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	404,726	404,726
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	404,726	404,726
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					404,726
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					404,726
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					404,726
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					404,726
35	FIELD WORK ADMINISTRATION	0.0%				0
36						404,726
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					404,726
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					404,726

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 pm
 FILE NAME RMIPEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	UNIT RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.02 RF-6 BUTLER BUILDING ADDITION

Ship & Dispose S/L Containers	13	ea							13,765	178,945	178,945
Ship & Dispose B-25 Containers	148	ea							1,358	200,984	200,984
Ship & Dispose 55 Gallon Drums	2	ea							137	274	274
Ship & Dispose 55 Gallon Drums	18	ea							137	2,466	2,466
Ship & Dispose 55 Gallon Drums	4	ea							137	548	548
Ship & Dispose 55 Gallon Drums	40	ea							137	5,480	5,480
Ship & Dispose 55 Gallon Drums	108	ea							137	14,796	14,796
Ship & Dispose 55 Gallon Drums	9	ea							137	1,233	1,233
TOTAL RF-6 BUTLER BUILDING ADDITION									0	404,726	\$ 404,726

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS & DISPOSAL
BUILDING GROUP "A" - Main Plant Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	MAIN PLANT BUILDING	0	0	0	2,962,618	2,962,618
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	2,962,618	2,962,618
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	2,962,618	2,962,618
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	2,962,618	2,962,618
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	2,962,618	2,962,618
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	2,962,618	2,962,618
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	2,962,618	2,962,618
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					2,962,618
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					2,962,618
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					2,962,618
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					2,962,618
35	FIELD WORK ADMINISTRATION	0.0%				0
36						2,962,618
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					2,962,618
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					2,962,618

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 pm
 FILE NAME RMIPEB94.FEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.03 MAIN PLANT BUILDING

Ship & Dispose S/L Containers	105	ea							13,765	1,445,325	1,445,325
Ship & Dispose B-25 Containers	590	ea							1,358	801,220	801,220
Ship & Dispose B-25 Containers	299	ea							1,358	406,042	406,042
Ship & Dispose 55 Gallon Drums	200	ea							137	27,400	27,400
Ship & Dispose 55 Gallon Drums	800	ea							137	109,600	109,600
Ship & Dispose 55 Gallon Drums	65	ea							137	8,905	8,905
Ship & Dispose 55 Gallon Drums	80	ea							137	10,960	10,960
Ship & Dispose 55 Gallon Drums	88	ea							137	12,056	12,056
Ship & Dispose 55 Gallon Drums	24	ea							137	3,288	3,288
Ship & Dispose 55 Gallon Drums	54	ea							137	7,398	7,398
Ship & Dispose 55 Gallon Drums	12	ea							137	1,644	1,644
Ship & Dispose 55 Gallon Drums	76	ea							137	10,412	10,412
Ship & Dispose 55 Gallon Drums	214	ea							137	29,318	29,318
Ship & Dispose 55 Gallon Drums	14	ea							137	1,918	1,918
Ship & Dispose 55 Gallor Drums	282	ea							137	38,634	38,634
Ship & Dispose 55 Gallon Drums	12	ea							137	1,644	1,644
Ship & Dispose 55 Gallon Drums	317	ea							137	43,429	43,429
Ship & Dispose 55 Gallon Drums	25	ea							137	3,425	3,425

TOTAL MAIN PLANT BUILDING

0

0

0

2,962,618

\$ 2,962,618

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT – SHIPMENTS & DISPOSAL
BUILDING GROUP "A" – Tool Crib Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	TOOL CRIB BUILDING	0	0	0	100,429	100,429
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	100,429	100,429
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	100,429	100,429
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	100,429	100,429
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	100,429	100,429
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	100,429	100,429
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	100,429	100,429
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					100,429
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					100,429
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					100,429
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					100,429
35	FIELD WORK ADMINISTRATION	0.0%				0
36						100,429
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					100,429
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					100,429

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.04 TOOL CRIB BUILDING

Ship & Dispose S/L Containers	7	ea							13,765	96,355	96,355
Ship & Dispose B-25 Containers	3	ea							1,358	4,074	4,074
TOTAL TOOL CRIB BUILDING			0			0		0		100,429	\$ 100,429

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT – SHIPMENTS & DISPOSAL
BUILDING GROUP "A" – Runout Table Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	RUNOUT TABLE (COOLING) FILTER BUILDING	0	0	0	44,285	44,285
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	44,285	44,285
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	44,285	44,285
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	44,285	44,285
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	44,285	44,285
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	44,285	44,285
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	44,285	44,285
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					44,285
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					44,285
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					44,285
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					44,285
35	FIELD WORK ADMINISTRATION	0.0%				0
36						44,285
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					44,285
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					44,285

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:28 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
		MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	

3.05 RUNOUT TABLE (COOLING) FILTER BUILDING

Ship & Dispose S/L Containers	3	ea						13,765	41,295	41,295
Ship & Dispose B-25 Containers	2	ea						1,358	2,716	2,716
Ship & Dispose 55 Gallon Drums	2	ea						137	274	274
TOTAL RUNOUT TABLE (COOLING) FILTER BUILDING			0			0		0	44,285	\$ 44,285

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT – SHIPMENTS & DISPOSAL
BUILDING GROUP "A" – Campbell Saw Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	CAMPBELL SAW FILTER BUILDING	0	0	0	30,520	30,520
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	30,520	30,520
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	30,520	30,520
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	30,520	30,520
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	30,520	30,520
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	30,520	30,520
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	30,520	30,520
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					30,520
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					30,520
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					30,520
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					30,520
35	FIELD WORK ADMINISTRATION	0.0%				0
36						30,520
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					30,520
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					30,520

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 pm
 FILE NAME RMIFEB94.FEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUBCONTRACTOR									RMI & OTHER COSTS		
		MAN HOURS		LABOR			MATERIAL		UNIT	TOTAL	TOTAL		
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	COST	COST	COST	COST	COST
		RATE	HOURS	RATE	COST	COST	COST	COST					

3.06 CAMPBELL SAW FILTER BUILDING

Ship & Dispose S/L Containers	2	ea									13,765	27,530	27,530	
Ship & Dispose B-25 Containers	2	ea									1,358	2,716	2,716	
Ship & Dispose 55 Gallon Drums	2	ea									137	274	274	
TOTAL CAMPBELL SAW FILTER BUILDING													30,520	\$ 30,520

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT – SHIPMENTS & DISPOSAL
BUILDING GROUP "A" – Die Head Filter Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7	DIE HEAD FILTER BUILDING	0	0	0	73,173	73,173
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	73,173	73,173
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	73,173	73,173
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	73,173	73,173
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	73,173	73,173
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	73,173	73,173
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	73,173	73,173
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					73,173
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					73,173
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					73,173
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					73,173
35	FIELD WORK ADMINISTRATION	0.0%				0
36						73,173
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					73,173
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					73,173

fm=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:28 PM
 FILE NAME RMIPEB94.PRE

BUILDING GROUP A WBS CODE 1.1.2.2.4.3 WASTE MANAGEMENT SHIPMENTS AND DISPOSAL	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS			
			MAN HOURS		LABOR		MATERIAL		UNIT	TOTAL	TOTAL	
			UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
			RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST
3.07 DIE HEAD FILTER BUILDING												
Ship & Dispose S/L Containers	5	ea								13,765	68,825	68,825
Ship & Dispose B-25 Containers	3	ea								1,358	4,074	4,074
Ship & Dispose 55 Gallon Drums	2	ea								137	274	274
TOTAL DIE HEAD FILTER BUILDING											73,173	\$ 73,173

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS & DISPOSAL
BUILDING GROUP "A" - RF-6 Butler Bldg

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8	RF-6 BUTLER BUILDING	0	0	0	1,370,931	1,370,931
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,370,931	1,370,931
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,370,931	1,370,931
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,370,931	1,370,931
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,370,931	1,370,931
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,370,931	1,370,931
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	1,370,931	1,370,931
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					1,370,931
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,370,931
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,370,931
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,370,931
35	FIELD WORK ADMINISTRATION	0.0%				0
36						1,370,931
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,370,931
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,370,931

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 pm
 FILE NAME RMIFEB94.PEP

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.10 RF-6 BUTLER BUILDING

Ship & Dispose S/L Containers	47	ea							13,765	646,955	646,955
Ship & Dispose B-25 Containers	151	ea							1,358	205,058	205,058
Ship & Dispose B-25 Containers	300	ea							1,358	407,400	407,400
Ship & Dispose 55 Gallon Drums	121	ea							137	16,577	16,577
Ship & Dispose 55 Gallon Drums	50	ea							137	6,850	6,850
Ship & Dispose 55 Gallon Drums	66	ea							137	9,042	9,042
Ship & Dispose 55 Gallon Drums	264	ea							137	36,168	36,168
Ship & Dispose 55 Gallon Drums	4	ea							137	548	548
Ship & Dispose 55 Gallon Drums	72	ea							137	9,864	9,864
Ship & Dispose 55 Gallon Drums	10	ea							137	1,370	1,370
Ship & Dispose 55 Gallon Drums	208	ea							137	28,496	28,496
Ship & Dispose 55 Gallon Drums	19	ea							137	2,603	2,603
TOTAL RF-6 BUTLER BUILDING									0	0	0
										1,370,931	\$ 1,370,931

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3
DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS & DISPOSAL
BUILDING GROUP "A" - RF-3 Butler Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9	RF-3 BUTLER BUILDING	0	0	0	114,468	114,468
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	114,468	114,468
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	114,468	114,468
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	114,468	114,468
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	114,468	114,468
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	114,468	114,468
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	114,468	114,468
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					114,468
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					114,468
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					114,468
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					114,468
35	FIELD WORK ADMINISTRATION	0.0%				0
36						114,468
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					114,468
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					114,468

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 pm
 FILE NAME RMIFEB94.DDE

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.11 RF-3 BUTLER BULDDING

Ship & Dispose S/L Containers	8	ea							13,765	110,120	110,120
Ship & Dispose B-25 Containers	3	ea							1,358	4,074	4,074
Ship & Dispose 55 Gallon Drums	2	ea							137	274	274
TOTAL RF-3 BUTLER BULDDING										114,468	\$ 114,468

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS & DISPOSAL
BUILDING GROUP "A" - NE Billet Storage

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	NORTHEAST BILLET STORAGE	0	0	0	163,101	163,101
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	163,101	163,101
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	163,101	163,101
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	163,101	163,101
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	163,101	163,101
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	163,101	163,101
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	163,101	163,101
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					163,101
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					163,101
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					163,101
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					163,101
35	FIELD WORK ADMINISTRATION	0.0%				0
36						163,101
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					163,101
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					163,101

fn=1122a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 PM
 FILE NAME RMI1994.PES

BUILDING GROUP A
 WBS CODE 1.1.2.2.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

SUBCONTRACTOR

QUANTITY	UM	MAN HOURS		CREW RATE		LABOR		MATERIAL		RMI & OTHER COSTS	
		UNIT	TOTAL HOURS	UNIT	TOTAL COST	UNIT	TOTAL COST	UNIT	TOTAL COST	UNIT	TOTAL COST

3.14 NORTHEAST BILLET STORAGE

11	ea									13,765	13,765	
8	ea									1,356	1,356	
6	ea									137	137	
											10,864	10,864
											82	82
											0	0
											163,101	163,101

TOTAL NORTHEAST BILLET STORAGE

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST	
	MHRS	LABOR	MATERIAL			
DIRECT COSTS						
1	Characterization of current waste containers on-site	0	0	0	562,613	562,613
2	Sample Containers & Shipping				(See M&S portion of Staffing Task Analysis)	
3	RF-6 Building	0	0	0	160,829	160,829
4	NW Storage Bldg	0	0	0	150,868	150,868
5	Main Plant (High & Low Bay)	0	0	0	203,855	203,855
6	RF-6 Butler Bldg Addition	0	0	0	84,551	84,551
7	Billet Storage Warehouse	0	0	0	51,474	51,474
8	RF-3 Butler Bldg	0	0	0	30,039	30,039
9	Enclosed Truck Ramp/Enclosed Ramp/Dock Area	0	0	0	72,142	72,142
10	Tool Crib Bldg	0	0	0	26,214	26,214
11	Diehead Filter Bldg	0	0	0	21,596	21,596
12	Campbell Saw Filter Bldg	0	0	0	18,565	18,565
13	Runout Table Filter Bldg	0	0	0	16,256	16,256
14	SUBTOTAL DIRECTS	0	0	0	1,399,002	1,399,002
15	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
16	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
17	JOB CONDITION FACTOR	0.0%	0	0		0
18	SUBTOTAL		0	0	1,399,002	1,399,002
19	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
20	SUBTOTAL		0	0	1,399,002	1,399,002
21	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
22	SUBTOTAL		0	0	1,399,002	1,399,002
23	CRAFT SUPERVISION	0.0%	0	0		0
24	SUBTOTAL		0	0	1,399,002	1,399,002
25	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
26	SALES TAX	0.0%	0	0		0
27	SUBTOTAL		0	0	1,399,002	1,399,002
28	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
29	SUBTOTAL					1,399,002
30	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
31	SUBTOTAL					1,399,002
32	RMI ENGINEERING	0.0%				0
33	SUBTOTAL					1,399,002
34	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
35	SUBTOTAL					1,399,002
36	FIELD WORK ADMINISTRATION	0.0%				0
37	SUBTOTAL					1,399,002
38	ALL RISK INSURANCE	0.0%				0
39	SUBTOTAL					1,399,002
40	PERFORMANCE & PAYMENT BOND	0.0%				0
41	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,399,002

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP A
 WBS CODE 1.1.2.2.6.
 LABORATORY SERVICES

QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS						
		MAN HOURS		CREW RATE	LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST			
		UNIT RATE	TOTAL HOURS		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST						
Sample Containers & Shipping Bldg Group "A"	2,272	ea												
Lab Service Analysis Fee RF-6 Building	747	ea						215	160,829	160,829				
Lab Service Analysis Fee for Characterization of Containerized Waste Currently On-Site	250	ea						2,250	562,613	562,613				
Lab Service Analysis Fee NW Storage Bldg	708	ea						213	150,868	150,868				
Lab Service Analysis Fee High Bay Area	591	ea						219	129,264	129,264				
Lab Service Analysis Fee RF-6 Butler Bldg Addn	417	ea						203	84,551	84,551				
Lab Service Analysis Fee Low Bay Area	378	ea						197	74,591	74,591				
Lab Service Analysis Fee Billet Storage Warehouse	288	ea						179	51,474	51,474				
Lab Service Analysis Fee RF-3 Butler Bldg	204	ea						147	30,039	30,039				
Lab Service Analysis Fee Enclosed Truck Ramp	200	ea						145	28,950	28,950				
Lab Service Analysis Fee Tool Crib	189	ea						139	26,214	26,214				
Lab Service Analysis Fee Diehead Filter Bldg	171	ea						126	21,596	21,596				
Lab Service Analysis Fee Dock Area	171	ea						126	21,596	21,596				
Lab Service Analysis Fee Enclosed Ramp	171	ea						126	21,596	21,596				
Lab Service Analysis Fee Campbell Saw Filter Bldg	159	ea						117	18,565	18,565				
Lab Service Analysis Fee Runout Table Filter Building	150	ea						108	16,254	16,254				
TOTAL									0	0	0	1,399,002	5	1,399,002

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	RF-6 Building	0	0	0	160,829	160,829
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	160,829	160,829
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	160,829	160,829
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	160,829	160,829
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	160,829	160,829
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	160,829	160,829
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	160,829	160,829
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					160,829
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					160,829
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					160,829
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					160,829
35	FIELD WORK ADMINISTRATION	0.0%				0
36						160,829
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					160,829
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					160,829

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	NW Storage Bldg				150,868	150,868
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	150,868	150,868
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	150,868	150,868
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	150,868	150,868
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	150,868	150,868
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	150,868	150,868
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	150,868	150,868
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					150,868
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					150,868
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					150,868
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					150,868
35	FIELD WORK ADMINISTRATION	0.0%				0
36						150,868
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					150,868
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					150,868

fn=1122a.wk3

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	Main Plant (High & Low Bay)				203,855	203,855
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	203,855	203,855
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	203,855	203,855
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	203,855	203,855
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	203,855	203,855
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	203,855	203,855
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	203,855	203,855
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					203,855
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					203,855
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					203,855
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					203,855
35	FIELD WORK ADMINISTRATION	0.0%				0
36						203,855
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					203,855
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					203,855

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	RF--6 Butler Bldg Addition				84,551	84,551
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	84,551	84,551
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	84,551	84,551
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	84,551	84,551
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	84,551	84,551
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	84,551	84,551
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	84,551	84,551
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					84,551
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					84,551
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					84,551
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					84,551
35	FIELD WORK ADMINISTRATION	0.0%				0
36						84,551
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					84,551
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					84,551

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	Billet Storage Warehouse				51,474	51,474
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	51,474	51,474
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	51,474	51,474
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	51,474	51,474
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	51,474	51,474
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	51,474	51,474
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	51,474	51,474
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					51,474
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					51,474
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					51,474
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					51,474
35	FIELD WORK ADMINISTRATION	0.0%				0
36						51,474
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					51,474
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					51,474

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	RF-3 Butler Bldg				30,039	30,039
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	30,039	30,039
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	30,039	30,039
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	30,039	30,039
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	30,039	30,039
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	30,039	30,039
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	30,039	30,039
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					30,039
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					30,039
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					30,039
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					30,039
35	FIELD WORK ADMINISTRATION	0.0%				0
36						30,039
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					30,039
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					30,039

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-04

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7	Enclosed Truck Ramp/Enclosed Ramp/Dock Area				72,142	72,142
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	72,142	72,142
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	72,142	72,142
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	72,142	72,142
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	72,142	72,142
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	72,142	72,142
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	72,142	72,142
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					72,142
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					72,142
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					72,142
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					72,142
35	FIELD WORK ADMINISTRATION	0.0%				0
36						72,142
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					72,142
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					72,142

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8	Tool Crib Bldg				26,214	26,214
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	26,214	26,214
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	26,214	26,214
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	26,214	26,214
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	26,214	26,214
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	26,214	26,214
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	26,214	26,214
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					26,214
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					26,214
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					26,214
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					26,214
35	FIELD WORK ADMINISTRATION	0.0%				0
36						26,214
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					26,214
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					26,214

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9	Diehead Filter Bldg				21,596	21,596
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	21,596	21,596
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	21,596	21,596
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	21,596	21,596
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	21,596	21,596
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	21,596	21,596
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	21,596	21,596
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					21,596
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					21,596
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					21,596
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					21,596
35	FIELD WORK ADMINISTRATION	0.0%				0
36						21,596
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					21,596
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					21,596

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	Campbell Saw Filter Bldg				18,565	18,565
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	18,565	18,565
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	18,565	18,565
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	18,565	18,565
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	18,565	18,565
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	18,565	18,565
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	18,565	18,565
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					18,565
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					18,565
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					18,565
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					18,565
35	FIELD WORK ADMINISTRATION	0.0%				0
36						18,565
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					18,565
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					18,565

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.2.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "A"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11	Runout Table Filter Bldg				16,256	16,256
12						
13	SUBTOTAL DIRECTS	0	0	0	16,256	16,256
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL				16,256	16,256
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL				16,256	16,256
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL				16,256	16,256
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL				16,256	16,256
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL				16,256	16,256
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					16,256
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					16,256
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					16,256
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					16,256
35	FIELD WORK ADMINISTRATION	0.0%				0
36						16,256
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					16,256
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					16,256

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GUIDELINES FOR CONSTRUCTION ESTIMATES

Building Remediation Group "A"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	3
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	3
Fumes, Dusts, Hazards	0 - 10	2	2
Material Handling Conditions (Distance, receiving)	0 - 3	1	2
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	3
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	1
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0 17%

GUIDELINES FOR CONSTRUCTION ESTIMATES

Equipment Remediation Group "A"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	1
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	0
Fumes, Dusts, Hazards	0 - 10	2	2
Material Handling Conditions (Distance, receiving)	0 - 3	1	2
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	3
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0
			11%

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

Building Remediation Group "A"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 5%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.5%

TOTAL - 31.5%

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

EQUIPMENT REMEDIATION GROUP "A"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 5%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.5%

TOTAL - 31.5%

BUILDINGS GROUP "B"

1.1.2.3

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3
DESCRIPTION: BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	8,000	8,000
2	CHARACTERIZATION		(See separate Staffing Task Analysis)			
3	EQUIPMENT REMEDIATION	2,192	44,154	649	0	44,803
4	BUILDING REMEDIATION	4,147	83,577	20,003	0	103,580
5	WASTE MANAGEMENT - HANDLING AND PACKAGING	0	0	0	80,365	80,365
6	WASTE MANAGEMENT - STAGING AND STORAGE		(See separate Staffing Task Analysis)			
7	WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL	0	0	0	288,207	288,207
8	ENVIRONMENTAL SAFETY AND HEALTH		(See separate Staffing Task Analysis)			
9	LABORATORY SERVICES	0	0	0	64,224	64,224
10	Rounding to the nearest \$100				1	1
11	RMI Staffing Plan - Labor		(See separate Staffing Task Analysis)			
12	RMI Staffing Plan - Supplies		(See separate Staffing Task Analysis)			
13	SUBTOTAL DIRECTS	6,339	127,731	20,652	440,797	589,180
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	2,168	43,684		43,684
15	HP & SAFETY TRAINING FACTOR	7.5%	475	9,580		9,580
16	JOB CONDITION FACTOR	14.3%	905	18,229		18,229
17	SUBTOTAL		9,887	199,224	20,652	440,797
18	CONSTRUCTION EQUIPMENT	45.0%	311	6,276	83,375	89,651
19	SUBTOTAL		10,198	205,500	104,027	440,797
20	CONSTRUCTION SUPPORT COSTS	26.2%	2,675	53,892		53,892
21	SUBTOTAL		12,873	259,392	104,027	440,797
22	CRAFT SUPERVISION	15.0%	1,931	40,834		40,834
23	SUBTOTAL		14,804	300,226	104,027	440,797
24	LABOR FRINGES/PAYROLL TAXES	42.7%		128,196		128,196
25	SALES TAX	6.0%			6,242	6,242
26	SUBTOTAL		14,804	428,422	110,269	979,488
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.00%				0
28	SUBTOTAL					979,488
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					979,488
31	RMI ENGINEERING	4.00%				21,547
32	SUBTOTAL					1,001,035
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.00%				0
34	SUBTOTAL					1,001,035
35	FIELD WORK ADMINISTRATION	5.00%				28,012
36	SUBTOTAL					1,029,047
37	ALL RISK INSURANCE	0.40%				2,353
38	SUBTOTAL					1,031,400
39	PERFORMANCE & PAYMENT BOND	0.00%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,031,400

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CEI SUBSTATION	325	6,552	96	0	6,648
2	RMI SUBSTATION	167	3,361	50	0	3,411
3	OUTDOOR SUBSTATION ADDITION	325	6,552	96	0	6,648
4	COMPRESSOR ROOM	224	4,504	66	0	4,570
5	SEWAGE TREATMENT PLANT	273	5,493	81	0	5,574
6	WASTE WATER TREATMENT PLANT	878	17,692	260	0	17,952
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	2,192	44,154	649	0	44,803
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	750	15,101		15,101
15	HP & SAFETY TRAINING FACTOR	7.5%	164	3,312		3,312
16	JOB CONDITION FACTOR	11.0%	241	4,857		4,857
17	SUBTOTAL		3,347	67,424	649	68,073
18	CONSTRUCTION EQUIPMENT	45.0%	105	2,124	28,217	30,341
19	SUBTOTAL		3,452	69,548	28,866	98,414
20	CONSTRUCTION SUPPORT COSTS	25.9%	894	18,005		18,005
21	SUBTOTAL		4,346	87,553	28,866	116,419
22	CRAFT SUPERVISION	15.0%	652	13,783		13,783
23	SUBTOTAL		4,998	101,336	28,866	130,202
24	LABOR FRINGES/PAYROLL TAXES	42.7%		43,270		43,270
25	SALES TAX	6.0%		1,732		1,732
26	SUBTOTAL		4,998	144,606	30,598	175,204
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					175,204
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					175,204
31	RMI ENGINEERING	4.0%				7,008
32	SUBTOTAL					182,212
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					182,212
35	FIELD WORK ADMINISTRATION	5.0%				9,111
36	SUBTOTAL					191,323
37	ALL RISK INSURANCE	0.4%				765
38	SUBTOTAL					192,088
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					192,088

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B" - CEI SUBSTATION

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL CCST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CEI SUBSTATION	325	6,552	96	0	6,648
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	325	6,552	96	0	6,648
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	111	2,241		2,241
15	HP & SAFETY TRAINING FACTOR	7.5%	24	491		491
16	JOB CONDITION FACTOR	11.0%	36	721		721
17	SUBTOTAL		496	10,005	96	10,101
18	CONSTRUCTION EQUIPMENT	45.0%	16	315	4,187	4,502
19	SUBTOTAL		512	10,320	4,283	14,603
20	CONSTRUCTION SUPPORT COSTS	25.9%	133	2,681		2,681
21	SUBTOTAL		645	13,001	4,283	17,284
22	CRAFT SUPERVISION	15.0%	97	2,053		2,053
23	SUBTOTAL		742	15,054	4,283	19,337
24	LABOR FRINGES/PAYROLL TAXES	42.7%		6,428		6,428
25	SALES TAX	6.0%		257		257
26	SUBTOTAL		742	21,482	4,540	26,022
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					26,022
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					26,022
31	RMI ENGINEERING	4.0%				1,041
32	SUBTOTAL					27,063
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					27,063
35	FIELD WORK ADMINISTRATION	5.0%				1,353
36	SUBTOTAL					28,416
37	ALL RISK INSURANCE	0.4%				114
38	SUBTOTAL					28,530
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					28,530

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						R M I &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST

3.6.1 CEI SUBSTATION

Demo Equipment	6.4 ton	42.00	269	20.17	847.14	5,422	15.00	96		6,518
Free Release Equipment	1.6 ton	35.00	56	20.17	705.95	1,130				1,130
TOTAL CEI SUBSTATION			325			6,552		96	0 \$	6,648

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B" - RMI SUBSTATION

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	RMI SUBSTATION	167	3,361	50	0	3,411
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	167	3,361	50	0	3,411
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	57	1,149		1,149
15	HP & SAFETY TRAINING FACTOR	7.5%	13	252		252
16	JOB CONDITION FACTOR	11.0%	18	370		370
17	SUBTOTAL		255	5,132	50	5,182
18	CONSTRUCTION EQUIPMENT	45.0%	8	162	2,147	2,309
19	SUBTOTAL		263	5,294	2,197	7,491
20	CONSTRUCTION SUPPORT COSTS	25.9%	68	1,369		1,369
21	SUBTOTAL		331	6,663	2,197	8,860
22	CRAFT SUPERVISION	15.0%	50	1,057		1,057
23	SUBTOTAL		381	7,720	2,197	9,917
24	LABOR FRINGES/PAYROLL TAXES	42.7%		3,296		3,296
25	SALES TAX	6.0%		132		132
26	SUBTOTAL		381	11,016	2,329	13,345
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					13,345
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					13,345
31	RMI ENGINEERING	4.0%				534
32	SUBTOTAL					13,879
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					13,879
35	FIELD WORK ADMINISTRATION	5.0%				694
36	SUBTOTAL					14,573
37	ALL RISK INSURANCE	0.4%				58
38	SUBTOTAL					14,631
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					14,631

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

	QUANTITY	UM	SUB CONTRACTOR						RMI &			
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
			UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
			RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.6.2 RMI SUBSTATION

Demo Equipment	3.3 ton		42.00	139	20.17	847.14	2,796	15.00	50			2,846
Free Release Equipment	.8 ton		35.00	28	20.17	705.95	565					565
TOTAL RMI SUBSTATION				167			3,361		50		0	\$ 3,411

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B" - OUTDOOR SUBSTATION ADDN

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	OUTDOOR SUBSTATION ADDITION	325	6,552	96	0	6,648
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	325	6,552	96	0	6,648
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	111	2,241		2,241
15	HP & SAFETY TRAINING FACTOR	7.5%	24	491		491
16	JOB CONDITION FACTOR	11.0%	36	721		721
17	SUBTOTAL		496	10,005	96	10,101
18	CONSTRUCTION EQUIPMENT	45.0%	16	315	4,187	4,502
19	SUBTOTAL		512	10,320	4,283	14,603
20	CONSTRUCTION SUPPORT COSTS	25.9%	133	2,681		2,681
21	SUBTOTAL		645	13,001	4,283	17,284
22	CRAFT SUPERVISION	15.0%	97	2,053		2,053
23	SUBTOTAL		742	15,054	4,283	19,337
24	LABOR FRINGES/PAYROLL TAXES	42.7%		6,428		6,428
25	SALES TAX	6.0%		257		257
26	SUBTOTAL		742	21,482	4,540	26,022
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					26,022
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					26,022
31	RMI ENGINEERING	4.0%				1,041
32	SUBTOTAL					27,063
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					27,063
35	FIELD WORK ADMINISTRATION	5.0%				1,353
36	SUBTOTAL					28,416
37	ALL RISK INSURANCE	0.4%				114
38	SUBTOTAL					28,530
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					28,530

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:29 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.6.3 OUTDOOR SUBSTATION ADDITION

Demo Equipment	6.4 ton	42.00	269	20.17	847.14	5,422	15.00	96			5,518
Free Release Equipment	1.6 ton	35.00	56	20.17	705.95	1,130					1,130
TOTAL OUTDOOR SUBSTATION ADDITION			325			6,552		96	0	0	6,648

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B" - COMPRESSOR ROOM

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	COMPRESSOR ROOM	224	4,504	66	0	4,570
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	224	4,504	66	0	4,570
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	77	1,540		1,540
15	HP & SAFETY TRAINING FACTOR	7.5%	17	338		338
16	JOB CONDITION FACTOR	11.0%	25	495		495
17	SUBTOTAL		343	6,877	66	6,943
18	CONSTRUCTION EQUIPMENT	45.0%	11	217	2,878	3,095
19	SUBTOTAL		354	7,094	2,944	10,038
20	CONSTRUCTION SUPPORT COSTS	25.9%	92	1,850		1,850
21	SUBTOTAL		446	8,944	2,944	11,888
22	CRAFT SUPERVISION	15.0%	67	1,414		1,414
23	SUBTOTAL		513	10,358	2,944	13,302
24	LABOR FRINGES/PAYROLL TAXES	42.7%		4,423		4,423
25	SALES TAX	6.0%			177	177
26	SUBTOTAL		513	14,781	3,121	17,902
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					17,902
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					17,902
31	RMI ENGINEERING	4.0%				716
32	SUBTOTAL					18,618
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					18,618
35	FIELD WORK ADMINISTRATION	5.0%				931
36	SUBTOTAL					19,549
37	ALL RISK INSURANCE	0.4%				78
38	SUBTOTAL					19,627
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					19,627

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 pm
 FILE NAME RMIFEB94.FEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
		MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	

3.6.4 COMPRESSOR ROOM

Demo Equipment	4.4 ton	42.00	185	20.17	847.14	3,727	15.00	66		3,793
Free Release Equipment	1.1 ton	35.00	39	20.17	705.95	777				777
TOTAL COMPRESSOR ROOM			224			4,504		66	0 \$	4,570

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1

10-FEB-94

DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B" - SEWAGE TREATMT PLANT

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	SEWAGE TREATMENT PLANT	273	5,493	81	0	5,574
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	273	5,493	81	0	5,574
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	93	1,879		1,879
15	HP & SAFETY TRAINING FACTOR	7.5%	20	412		412
16	JOB CONDITION FACTOR	11.0%	30	604		604
17	SUBTOTAL		416	8,388	81	8,469
18	CONSTRUCTION EQUIPMENT	45.0%	13	264	3,511	3,775
19	SUBTOTAL		429	8,652	3,592	12,244
20	CONSTRUCTION SUPPORT COSTS	25.9%	111	2,233		2,233
21	SUBTOTAL		540	10,885	3,592	14,477
22	CRAFT SUPERVISION	15.0%	81	1,711		1,711
23	SUBTOTAL		621	12,596	3,592	16,188
24	LABOR FRINGES/PAYROLL TAXES	42.7%		5,378		5,378
25	SALES TAX	6.0%			216	216
26	SUBTOTAL		621	17,974	3,808	21,782
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					21,782
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					21,782
31	RMI ENGINEERING	4.0%				871
32	SUBTOTAL					22,653
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					22,653
35	FIELD WORK ADMINISTRATION	5.0%				1,133
36	SUBTOTAL					23,786
37	ALL RISK INSURANCE	0.4%				95
38	SUBTOTAL					23,881
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					23,881

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:29 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR									TOTAL COST
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.6.5 SEWAGE TREATMENT PLANT

Demo Equipment	5.4 ton	42.00	227	20.17	847.14	4,575	15.00	81			4,656
Free Release Equipment	1.3 ton	35.00	46	20.17	705.95	918					918
			-----				-----			-----	
TOTAL SEWAGE TREATMENT PLANT			273			5,493		81		0	\$ 5,574

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "B" - WW TREATMT PLANT

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	WASTE WATER TREATMENT PLANT	878	17,692	260	0	17,952
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	878	17,692	260	0	17,952
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	300	6,051		6,051
15	HP & SAFETY TRAINING FACTOR	7.5%	66	1,327		1,327
16	JOB CONDITION FACTOR	11.0%	97	1,946		1,946
17	SUBTOTAL		1,341	27,016	260	27,276
18	CONSTRUCTION EQUIPMENT	45.0%	42	851	11,306	12,157
19	SUBTOTAL		1,383	27,867	11,566	39,433
20	CONSTRUCTION SUPPORT COSTS	25.9%	358	7,214		7,214
21	SUBTOTAL		1,741	35,081	11,566	46,647
22	CRAFT SUPERVISION	15.0%	261	5,520		5,520
23	SUBTOTAL		2,002	40,601	11,566	52,167
24	LABOR FRINGES/PAYROLL TAXES	42.7%		17,337		17,337
25	SALES TAX	6.0%		694		694
26	SUBTOTAL		2,002	57,938	12,260	70,198
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					70,198
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					70,198
31	RMI ENGINEERING	4.0%				2,808
32	SUBTOTAL					73,006
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					73,006
35	FIELD WORK ADMINISTRATION	5.0%				3,650
36	SUBTOTAL					76,656
37	ALL RISK INSURANCE	0.4%				307
38	SUBTOTAL					76,963
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					76,963

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.1
 BUILDING REMEDIATION OPERATIONS
 EQUIPMENT REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS			TOTAL COST
		MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST	
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST				

3.6.6 WASTE WATER TREATMENT PLANT

Demo Equipment	17.3 ton	42.00	727	20.17	847.14	14,656	15.00	260			14,916	
Free Release Equipment	4.3 ton	35.00	151	20.17	705.95	3,036					3,036	
TOTAL WASTE WATER TREATMENT PLANT			878			17,692		260		0	9	17,952

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CEI SUBSTATION	721	14,543	2,204	0	16,747
2	RMI SUBSTATION	468	9,436	2,340	0	11,776
3	OUTDOOR SUBSTATION ADDITION	321	6,475	2,204	0	8,679
4	COMPRESSOR ROOM	280	5,606	1,418	0	7,024
5	WASTE WATER TREATMENT PLANT	2,031	40,974	10,083	0	51,057
6	SEWAGE TREATMENT PLANT	326	6,543	1,754	0	8,297
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	4,147	83,577	20,003	0	103,580
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,418	28,583		28,583
15	HP & SAFETY TRAINING FACTOR	7.5%	311	6,268		6,268
16	JOB CONDITION FACTOR	16.0%	664	13,372		13,372
17	SUBTOTAL		6,540	131,800	0	151,803
18	CONSTRUCTION EQUIPMENT	45.0%	206	4,152	55,158	59,310
19	SUBTOTAL		6,746	135,952	75,161	211,113
20	CONSTRUCTION SUPPORT COSTS	26.4%	1,781	35,887		35,887
21	SUBTOTAL		8,527	171,839	75,161	247,000
22	CRAFT SUPERVISION	15.0%	1,279	27,051		27,051
23	SUBTOTAL		9,806	198,890	75,161	274,051
24	LABOR FRINGES/PAYROLL TAXES	42.7%		84,926		84,926
25	SALES TAX	6.0%		4,510		4,510
26	SUBTOTAL		9,806	283,816	79,671	363,487
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					363,487
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					363,487
31	RMI ENGINEERING	4.0%				14,539
32	SUBTOTAL					378,026
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					378,026
35	FIELD WORK ADMINISTRATION	5.0%				18,901
36	SUBTOTAL					396,927
37	ALL RISK INSURANCE	0.4%				1,588
38	SUBTOTAL					398,515
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					398,515

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B" - CEI SUBSTATION

10-FEB-94

#	DESCRIPTION		FIELD LABOR			RMI & SUBS	TOTAL COST
			MHSR	LABOR	MATERIAL		
DIRECT COSTS							
1	CEI SUBSTATION		721	14,543	2,204	0	16,747
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13	SUBTOTAL DIRECTS		721	14,543	2,204	0	16,747
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	247	4,974			4,974
15	HP & SAFETY TRAINING FACTOR	7.5%	54	1,091			1,091
16	JOB CONDITION FACTOR	16.0%	115	2,327			2,327
17	SUBTOTAL		1,137	22,935	2,204	0	25,139
18	CONSTRUCTION EQUIPMENT	45.0%	36	722	9,599		10,321
19	SUBTOTAL		1,173	23,657	11,803	0	35,460
20	CONSTRUCTION SUPPORT COSTS	26.4%	310	6,253			6,253
21	SUBTOTAL		1,483	29,910	11,803	0	41,713
22	CRAFT SUPERVISION	15.0%	222	4,700			4,700
23	SUBTOTAL		1,705	34,610	11,803	0	46,413
24	LABOR FRINGES/PAYROLL TAXES	42.7%		14,778			14,778
25	SALES TAX	6.0%			708		708
26	SUBTOTAL		1,705	49,388	12,511	0	61,899
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%					0
28	SUBTOTAL						61,899
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%					0
30	SUBTOTAL						61,899
31	RMI ENGINEERING	4.0%					2,476
32	SUBTOTAL						64,375
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%					0
34	SUBTOTAL						64,375
35	FIELD WORK ADMINISTRATION	5.0%					3,219
36	SUBTOTAL						67,594
37	ALL RISK INSURANCE	0.4%					270
38	SUBTOTAL						67,864
39	PERFORMANCE & PAYMENT BOND	0.0%					0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation						67,864

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR									R M I &		
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			

3.1 CEI SUBSTATION

Containment & Setup	600	sf	.25	150	20.17	5.04	3,026	3.00	1,800			4,826
Apply Fixative Coating	100	sf	.01	1	20.17	.20	20	.19	19			39
Rem Elect Distribution	550	cf	.20	110	20.17	4.03	2,219	.10	55			2,274
Vacu-Blast Concrete Slab 1/4"	600	sf	.10	60	20.17	2.02	1,210	.55	330			1,540
Remove 3750 Kva Substation	1	ls	400.00	400	20.17	8,068.00	8,068					8,068
TOTAL CEI SUBSTATION				721			14,543		2,204		0	\$ 16,747

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B" - RMI SUBSTATION

10-FEB-94

1	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
2	RMI SUBSTATION	468	9,436	2,340	0	11,776
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	468	9,436	2,340	0	11,776
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	160	3,227		3,227
15	HP & SAFETY TRAINING FACTOR	7.5%	35	708		708
16	JOB CONDITION FACTOR	16.0%	75	1,510		1,510
17	SUBTOTAL		738	14,881	2,340	17,221
18	CONSTRUCTION EQUIPMENT	45.0%	23	469	6,227	6,696
19	SUBTOTAL		761	15,350	8,567	23,917
20	CONSTRUCTION SUPPORT COSTS	26.4%	201	4,052		4,052
21	SUBTOTAL		962	19,402	8,567	27,969
22	CRAFT SUPERVISION	15.0%	144	3,047		3,047
23	SUBTOTAL		1,106	22,449	8,567	31,016
24	LABOR FRINGES/PAYROLL TAXES	42.7%		9,586		9,586
25	SALES TAX	6.0%		514		514
26	SUBTOTAL		1,106	32,035	9,081	41,116
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					41,116
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					41,116
31	RMI ENGINEERING	4.0%				1,645
32	SUBTOTAL					42,761
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					42,761
35	FIELD WORK ADMINISTRATION	5.0%				2,138
36	SUBTOTAL					44,899
37	ALL RISK INSURANCE	0.4%				180
38	SUBTOTAL					45,079
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					45,079

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94.PSE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR									
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.2 RMI SUBSTATION

Containment & Setup	600	sf	.25	150	20.17	5.04	3,026	3.00	1,800		4,826
Apply Fixative Coating	100	sf	.01	1	20.17	.20	20	.19	19		39
Rem Elect Distrubution	550	cf	.20	110	20.17	4.03	2,219	.10	55		2,274
Demo Masonry	1,170	sf	.04	47	20.17	.81	944	.10	117		1,061
Demo Roofing System	68	sf	1.00	68	20.17	20.17	1,372	.10	7		1,379
Demo Structural Steel	.8	ton	40.00	32	20.17	806.80	645	15.00	12		657
Vacu-Blast Concrete Slab 1/4"	600	sf	.10	60	20.17	2.02	1,210	.55	330		1,540
TOTAL RMI SUBSTATION				468			9,436		2,340	0	\$ 11,776

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B" - OUTDOOR SUBSTATION ADDN

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	OUTDOOR SUBSTATION ADDITION	321	6,475	2,204	0	8,679
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	321	6,475	2,204	0	8,379
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	110	2,214		2,214
15	HP & SAFETY TRAINING FACTOR	7.5%	24	486		486
16	JOB CONDITION FACTOR	16.0%	51	1,036		1,036
17	SUBTOTAL		506	10,211	2,204	12,415
18	CONSTRUCTION EQUIPMENT	45.0%	16	322	4,273	4,595
19	SUBTOTAL		522	10,533	6,477	17,010
20	CONSTRUCTION SUPPORT COSTS	26.4%	138	2,783		2,783
21	SUBTOTAL		660	13,316	6,477	19,793
22	CRAFT SUPERVISION	15.0%	99	2,096		2,096
23	SUBTOTAL		759	15,412	6,477	21,889
24	LABOR FRINGES/PAYROLL TAXES	42.7%		6,581		6,581
25	SALES TAX	6.0%		389		389
26	SUBTOTAL		759	21,993	6,866	28,859
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					28,859
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					28,859
31	RMI ENGINEERING	4.0%				1,154
32	SUBTOTAL					30,013
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					30,013
35	FIELD WORK ADMINISTRATION	5.0%				1,501
36	SUBTOTAL					31,514
37	ALL RISK INSURANCE	0.4%				126
38	SUBTOTAL					31,640
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					31,640

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 PM
 FILE NAME RMIFEB94.PSE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	S U P C O N T R A C T O R						R M I &		
		M A N H O U R S		L A B O R			M A T E R I A L		O T H E R C O S T S	
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST

3.3 OUTDOOR SUBSTATION ADDITION

Containment & Setup	600	sf	.25	150	20.17	5.04	3,026	3.00	1,800		4,826
Apply Fixative Coating	100	sf	.01	1	20.17	.20	20	.19	19		39
Rem Elect Distrubution	550	cf	.20	110	20.17	4.03	2,219	.10	55		2,274
Vacu-Blast Concrete Slab 1/4"	600	sf	.10	60	20.17	2.02	1,210	.55	330		1,540
TOTAL OUTDOOR SUBSTATION ADDITION				321			6,475		2,204	0 5	8,679

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B" - COMPRESSOR ROOM

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	COMPRESSOR ROOM	280	5,606	1,418	0	7,024
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	280	5,606	1,418	0	7,024
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	96	1,917		1,917
15	HP & SAFETY TRAINING FACTOR	7.5%	21	420		420
16	JOB CONDITION FACTOR	16.0%	45	897		897
17	SUBTOTAL		442	8,840	1,418	10,258
18	CONSTRUCTION EQUIPMENT	45.0%	14	278	3,700	3,978
19	SUBTOTAL		456	9,118	5,118	14,236
20	CONSTRUCTION SUPPORT COSTS	26.4%	120	2,402		2,402
21	SUBTOTAL		576	11,520	5,118	16,638
22	CRAFT SUPERVISION	15.0%	86	1,808		1,808
23	SUBTOTAL		662	13,328	5,118	18,446
24	LABOR FRINGES/PAYROLL TAXES	42.7%		5,691		5,691
25	SALES TAX	6.0%		307		307
26	SUBTOTAL		662	19,019	5,425	24,444
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					24,444
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					24,444
31	RMI ENGINEERING	4.0%				978
32	SUBTOTAL					25,422
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					25,422
35	FIELD WORK ADMINISTRATION	5.0%				1,271
36	SUBTOTAL					26,693
37	ALL RISK INSURANCE	0.4%				107
38	SUBTOTAL					26,800
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					26,800

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR									TOTAL COST
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.4 COMPRESSOR ROOM

Containment & Setup	270	sf	.25	68	20.17	5.04	1,361	3.00	810		2,171
Apply Fixative Coating	200	sf	.01	2	20.17	.20	40	.19	38		78
Rem Elect Distribution	3	cf	.20	1	20.17	4.03	12	.10			12
Install Temporary Power	270	sf	.02	4	20.17	.30	82	.50	135		217
Demo Exterior Walls	354	sf	.03	11	20.17	.61	214	.10	35		249
Demo Doors	23	cf	1.50	35	20.17	30.26	696	.10	2		398
Demo Roofing System	260	sf	.05	12	20.17	.91	236	.10	26		262
Demo Structural Steel	.5	ton	40.00	20	20.17	806.80	403	15.00	8		411
Vacu-Blast Concrete Slab 1/4"	270	sf	.10	27	20.17	2.02	545	.55	149		694
Demo Piping	1	ton	40.00	40	20.17	806.80	807	15.00	15		822
Cap Vents & Drains	1	ls	60.00	60	20.17	1,210.20	1,210	200.00	200		1,410
TOTAL COMPRESSOR ROOM				280			5,606		1,418	0	7,024

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B" - WW TREATMT PLANT

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	WASTE WATER TREATMENT PLANT	2,031	40,974	10,083	0	51,057
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	2,031	40,974	10,083	0	51,057
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	695	14,013		14,013
15	HP & SAFETY TRAINING FACTOR	7.5%	152	3,073		3,073
16	JOB CONDITION FACTOR	16.0%	325	6,556		6,556
17	SUBTOTAL		3,203	64,616	0	74,699
18	CONSTRUCTION EQUIPMENT	45.0%	101	2,035		29,077
19	SUBTOTAL		3,304	66,651	0	103,776
20	CONSTRUCTION SUPPORT COSTS	26.4%	872	17,588		17,588
21	SUBTOTAL		4,176	84,239	0	121,364
22	CRAFT SUPERVISION	15.0%	626	13,252		13,252
23	SUBTOTAL		4,802	97,491	0	134,616
24	LABOR FRINGES/PAYROLL TAXES	42.7%		41,629		41,629
25	SALES TAX	6.0%		2,228		2,228
26	SUBTOTAL		4,802	139,120	0	178,473
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					178,473
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					178,473
31	RMI ENGINEERING	4.0%				7,139
32	SUBTOTAL					185,612
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					185,612
35	FIELD WORK ADMINISTRATION	5.0%				9,281
36	SUBTOTAL					194,893
37	ALL RISK INSURANCE	0.4%				780
38	SUBTOTAL					195,373
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					195,673

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR								R M I & OTHER COSTS		
		MAN		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST				TOTAL COST	

3.5 WASTE WATER TREATMENT PLANT

Containment & Setup	1,892	sf	.25	473	20.17	5.04	9,540	3.00	5,676			15,216
Apply Fixative Coating	5,892	sf	.01	59	20.17	.20	1,188	.19	1,115			2,307
Insulation	2,316	cf	.01	23	20.17	.20	467	.10	232			699
Rem Elect Distribuiton	76	cf	.20	15	20.17	4.03	307	.10	8			315
Install Temporary Power	1,892	sf	.02	28	20.17	.30	572	.50	946			1,518
Internal Misc. Steel	1.1	ton	30.00	33	20.17	605.10	666	15.00	17			683
Demo HVAC Systems	3.3	ton	18.00	59	20.17	363.06	1,198	15.00	50			1,248
Demo Exterior Walls	3,780	sf	.03	113	20.17	.61	2,287	.10	378			2,665
Demo Windows	47	cf	.10	5	20.17	2.02	95	.10	5			100
Demo Doors	23	cf	1.50	35	20.17	30.26	696	.10	2			698
Demo Roofing System	2,112	sf	.03	68	20.17	.65	1,363	.10	211			1,574
Demo Structural Steel	9.4	ton	40.00	376	20.17	806.80	7,584	15.00	141			7,725
Vacu-Blast Concrete Slab 1/4"	1,892	sf	.10	189	20.17	2.02	3,816	.55	1,041			4,857
Demo Piping	10	ton	40.00	400	20.17	806.80	8,068	15.00	150			8,218
Structures inside Building	70	cf	1.50	105	20.17	30.26	2,118	.10	7			2,125
Cap Vents & Drains	1	ls	50.00	50	20.17	1,008.50	1,009	100.00	100			1,109
TOTAL WASTE WATER TREATMENT PLANT				2,031			46,974		10,083			57,057

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "B" - SEWAGE TREATMT PLANT

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	SEWAGE TREATMENT PLANT	326	6,543	1,754	0	8,297
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	326	6,543	1,754	0	8,297
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	111	2,238		2,238
15	HP & SAFETY TRAINING FACTOR	7.5%	24	491		491
16	JOB CONDITION FACTOR	16.0%	52	1,047		1,047
17	SUBTOTAL		513	10,319	1,754	12,073
18	CONSTRUCTION EQUIPMENT	45.0%	16	325	4,319	4,644
19	SUBTOTAL		529	10,644	6,073	16,717
20	CONSTRUCTION SUPPORT COSTS	26.4%	140	2,810		2,810
21	SUBTOTAL		669	13,454	6,073	19,527
22	CRAFT SUPERVISION	15.0%	100	2,107		2,107
23	SUBTOTAL		769	15,561	6,073	21,634
24	LABOR FRINGES/PAYROLL TAXES	42.7%		6,645		6,645
25	SALES TAX	6.0%		364		364
26	SUBTOTAL		769	22,206	6,437	28,643
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					28,643
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					28,643
31	RMI ENGINEERING	4.0%				1,146
32	SUBTOTAL					29,789
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					29,789
35	FIELD WORK ADMINISTRATION	5.0%				1,489
36	SUBTOTAL					31,278
37	ALL RISK INSURANCE	0.4%				125
38	SUBTOTAL					31,403
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					31,403

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94_PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR								RMI &		TOTAL COST
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS				
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.6 SEWAGE TREATMENT FACILITY

Containment & Setup	400	sf	.25	100	20.17	5.04	2,017	3.00	1,200			3,217
Apply Fixative Coating	50	sf	.01	1	20.17	.20	10	.19	10			20
Rem Elect Distribution	8	cf	.20	2	20.17	4.03	32	.10	1			33
Install Temporary Power	400	sf	.02	6	20.17	.30	121	.50	200			321
Demo Exterior Walls	400	sf	.03	12	20.17	.61	242	.10	40			282
Demo Doors	25	cf	1.50	38	20.17	30.26	756	.10	3			759
Demo Roofing System	150	sf	.03	5	20.17	.65	97	.10	15			112
Demo Structural Steel	1	ton	40.00	40	20.17	806.80	807	15.00	15			822
Vacu-Blast Concrete Slab 1/4"	400	sf	.10	40	20.17	2.02	807	.55	220			1,027
Demo Piping	2	ton	40.00	80	20.17	806.80	1,614	15.00	30			1,644
Cap Vents & Drains	1	ls	2.00	2	20.17	40.34	40	20.00	20			60
TOTAL SEWAGE TREATMENT FACILITY				326			6,543		1,754			8,297

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B"

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CEI SUBSTATION	0	0	0	8,057	8,057
2	RMI SUBSTATION	0	0	0	8,116	8,116
3	OUTDOOR SUBSTATION ADDITION	0	0	0	8,057	8,057
4	COMPRESSOR ROOM	0	0	0	8,116	8,116
5	WASTE WATER TREATMENT PLANT	0	0	0	31,846	31,846
6	SEWAGE TREATMENT PLANT	0	0	0	16,173	16,173
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	80,365	80,365
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	80,365	80,365
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	80,365	80,365
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	80,365	80,365
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	80,365	80,365
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	80,365	80,365
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					80,365
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					80,365
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					80,365
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					80,365
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					80,365
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					80,365
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					80,365

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B" - CEI SUBSTATION

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CEI SUBSTATION	0	0	0	8,057	8,057
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	8,057	8,057
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	8,057	8,057
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	8,057	8,057
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	8,057	8,057
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	8,057	8,057
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	8,057	8,057
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					8,057
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,057
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					8,057
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,057
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					8,057
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					8,057
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,057

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

3.1 CEI SUBSTATION

QUANTITY	UM	MAN HOURS			LABOR			MATERIAL		RMI & OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	
Hndl & Pack SeaLand Containers Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93	2	ea								3,564	7,128	7,128
Hndl & Pack B-25 Containers Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93	1	ea								473	473	473
Sales Tax	6	pct								7,601	456	456
TOTAL CEI SUBSTATION			0			0				0	8,057	8,057

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B" - RMI SUBSTATION

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	RMI SUBSTATION	0	0	0	8,116	8,116
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	8,116	8,116
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	8,116	8,116
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	8,116	8,116
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	8,116	8,116
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	8,116	8,116
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	8,116	8,116
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					8,116
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,116
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					8,116
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,116
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					8,116
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					8,116
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,116

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:30 pm
 FILE NAME RMIFEB94_PEE

BUILDING GROUP B WBS CODE 1.1.2.3.4.1 WASTE MANAGEMENT HANDLING AND PACKAGING	QUANTITY	UM	SUB CONTRACTOR						R M I &		
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.2 RMI SUBSTATION

Hndl & Pack SeaLand Containers Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93	2	ea								3,564	7,128	7,128	
Hndl & Pack 8-25 Containers Quantity per "BURIAL BOX ESTIMATE" rev 6 9/13/93	1	ea								473	473	473	
Hndl & Pack 55 Gallon Drums Spent Radiological Blast Material	1	ea								56	56	56	
Sales Tax	6	pct								7,657	459	459	
TOTAL RMI SUBSTATION				0			0			0	8,116	5	8,116

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B" - OUTDOOR SUBSTATION ADDN

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRG	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	OUTDOOR SUBSTATION ADDITION	0	0	0	8,057	8,057
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	8,057	8,057
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	8,057	8,057
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	8,057	8,057
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	8,057	8,057
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	8,057	8,057
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	8,057	8,057
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					8,057
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,057
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					8,057
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,057
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					8,057
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					8,057
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,057

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:31 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.1

WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR									RMI & OTHER COSTS		
		MAN HOURS		CREW RATE	LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST		
		UNIT RATE	TOTAL HOURS		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST					

3.3 OUTDOOR SUBSTATION ADDITION

Hndl & Pack SeaLand Containers	2	ea									3,564	7,128	7,128
Quantity per "BURIAL BOX ESTIMATE"													
rev 6 9/13/93													
Hndl & Pack B-25 Containers	1	ea									473	473	473
Quantity per "BURIAL BOX ESTIMATE"													
rev 6 9/13/93													
Sales Tax	6	pct									7,601	456	456
TOTAL OUTDOOR SUBSTATION ADDITION				0			0			0		8,057	8,057

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B" - COMPRESSOR ROOM

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	COMPRESSOR ROOM	0	0	0	8,116	8,116
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	8,116	8,116
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0	0
17	SUBTOTAL		0	0	0	8,116
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL		0	0	0	8,116
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0	0
21	SUBTOTAL		0	0	0	8,116
22	CRAFT SUPERVISION	0.0%	0	0	0	0
23	SUBTOTAL		0	0	0	8,116
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0	0
25	SALES TAX	0.0%	0	0	0	0
26	SUBTOTAL		0	0	0	8,116
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					8,116
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,116
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					8,116
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,116
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					8,116
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					8,116
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,116

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:31 pm
 FILE NAME RMIPEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						R M I &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.4 COMPRESSOR ROOM

Hndl & Pack Sealand Containers	2	ea							3,564	7,128	7,128
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack B-25 Containers	1	ea							473	473	473
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack 55 Gallon Drums	1	ea							56	56	56
Spent Radiological Blast Material											
Sales Tax	6	pct							7,657	459	459
TOTAL COMPRESSOR ROOM										8,116	\$ 8,116

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B" - WW TREATMT PLANT

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	WASTE WATER TREATMENT PLANT	0	0	0	31,846	31,846
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	31,846	31,846
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	31,846	31,846
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	31,846	31,846
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	31,846	31,846
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	31,846	31,846
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%				0
26	SUBTOTAL		0	0	31,846	31,846
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					31,846
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					31,846
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					31,846
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					31,846
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					31,846
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					31,846
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					31,846

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:31 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.5 WASTE WATER TREATMENT PLANT

Hndl & Pack SeaLand Containers	8	ea							3,564	28,512	28,512
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack B-25 Containers	3	ea							473	1,419	1,419
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack 55 Gallon Drums	2	ea							56	112	112
Spent Radiological Blast Material											
Sales Tax	6	pct							30,043	1,803	1,803
TOTAL WASTE WATER TREATMENT PLANT										31,846	\$ 31,846

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "B" - SEWAGE TREATMT PLANT

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5						
6	SEWAGE TREATMENT PLANT	0	0	0	16,173	16,173
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	16,173	16,173
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	16,173	16,173
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	16,173	16,173
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	16,173	16,173
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	16,173	16,173
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	16,173	16,173
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					16,173
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					16,173
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					16,173
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					16,173
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					16,173
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					16,173
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					16,173

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:31 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS			
		MAN HOURS		CREW RATE	LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
		UNIT RATE	TOTAL HOURS		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			

3.6 SEWAGE TREATMENT FACILITY

Hndl & Pack Sealand Containers	4	ea							3,564	14,256	14,256
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack B-25 Containers	2	ea							473	946	946
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack 55 Gallon Drums	1	ea							56	56	56
Spent Radiological Blast Material											
Sales Tax	6	pct							15,256	915	915
TOTAL SEWAGE TREATMENT FACILITY										16,173	\$ 16,173

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3
DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL
BUILDING GROUP "B"

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1 CEI SUBSTATION	0	0	0	28,888	28,888
2 RMI SUBSTATION	0	0	0	29,025	29,025
3 OUTDOOR SUBSTATION ADDITION	0	0	0	28,888	28,888
4 COMPRESSOR ROOM	0	0	0	29,025	29,025
5 WASTE WATER TREATMENT PLANT	0	0	0	114,468	114,468
6 SEWAGE TREATMENT PLANT	0	0	0	57,913	57,913
7					
8					
9					
10					
11					
12					
13 SUBTOTAL DIRECTS	0	0	0	288,207	288,207
14 RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15 HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16 JOB CONDITION FACTOR	0.0%	0	0		0
17 SUBTOTAL	0	0	0	288,207	288,207
18 CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19 SUBTOTAL	0	0	0	288,207	288,207
20 CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21 SUBTOTAL	0	0	0	288,207	288,207
22 CRAFT SUPERVISION	0.0%	0	0		0
23 SUBTOTAL	0	0	0	288,207	288,207
24 LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25 SALES TAX	0.0%	0	0		0
26 SUBTOTAL	0	0	0	288,207	288,207
27 SUBTIER SUBCONTRACTOR CH/PROFIT	0.0%				0
28 SUBTOTAL					288,207
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30 SUBTOTAL					288,207
31 RMI ENGINEERING	0.0%				0
32 SUBTOTAL					288,207
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					288,207
35 FIELD WORK ADMINISTRATION	0.0%				0
36 SUBTOTAL					288,207
37 ALL RISK INSURANCE	0.0%				0
38 SUBTOTAL					288,207
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					288,207

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3
DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL
BUILDING GROUP "B" - CEI SUBSTATION

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1 CEI SUBSTATION	0	0	0	28,888	28,888
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13 SUBTOTAL DIRECTS	0	0	0	28,888	28,888
14 RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15 HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16 JOB CONDITION FACTOR	0.0%	0	0		0
17 SUBTOTAL		0	0	28,888	28,888
18 CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19 SUBTOTAL		0	0	28,888	28,888
20 CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21 SUBTOTAL		0	0	28,888	28,888
22 CRAFT SUPERVISION	0.0%	0	0		0
23 SUBTOTAL		0	0	28,888	28,888
24 LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25 SALES TAX	0.0%			0	0
26 SUBTOTAL		0	0	28,888	28,888
27 SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28 SUBTOTAL					28,888
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30 SUBTOTAL					28,888
31 RMI ENGINEERING	0.0%				0
32 SUBTOTAL					28,888
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					28,888
35 FIELD WORK ADMINISTRATION	0.0%				0
36 SUBTOTAL					28,888
37 ALL RISK INSURANCE	0.0%				0
38 SUBTOTAL					28,888
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					28,888

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:31 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						R M I &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.1 CEI SUBSTATION

Ship & Dispose S/L Containers	2	ea								13,765	27,530	27,530
Ship & Dispose B-25 Containers	1	ea								1,358	1,358	1,358
TOTAL CEI SUBSTATION				0			0			0	28,888	\$ 28,888

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL
BUILDING GROUP "B" - RMI SUBSTATION

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	RMI SUBSTATION	0	0	0	29,025	29,025
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	29,025	29,025
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	29,025	29,025
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	29,025	29,025
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	29,025	29,025
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	29,025	29,025
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL	0	0	0	29,025	29,025
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					29,025
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					29,025
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					29,025
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					29,025
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					29,025
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					29,025
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					29,025

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:31 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUBCONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.2 RMI SUBSTATION

Ship & Dispose S/L Containers	2	ea							13,765	27,530	27,530
Ship & Dispose B-25 Containers	1	ea							1,358	1,358	1,358
Ship & Dispose 55 Gallon Drum	1	ea							137	137	137
TOTAL RMI SUBSTATION					0	0	0		25,025	\$	29,025

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL
BUILDING GROUP "B" - OUTDOOR SUBSTATION ADDN

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	OUTDOOR SUBSTATION ADDITION	0	0	0	28,888	28,888
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	28,888	28,888
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	28,888	28,888
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	28,888	28,888
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	28,888	28,888
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	28,888	28,888
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	28,888	28,888
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					28,888
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					28,888
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					28,888
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					28,888
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					28,888
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					28,888
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					28,888

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:31 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						R M I & OTHER COSTS			
		MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST	
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST

3.3 OUTDOOR SUBSTATION ADDITION

Ship & Dispose S/L Containers	2	ea							13,765	27,530	27,530
Ship & Dispose B-25 Containers	1	ea							1,358	1,358	1,358
TOTAL OUTDOOR SUBSTATION ADDITION										28,888	\$ 28,888

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL
BUILDING GROUP "B" - COMPRESSOR ROOM

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	COMPRESSOR ROOM	0	0	0	29,025	29,025
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	29,025	29,025
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	29,025	29,025
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	29,025	29,025
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	29,025	29,025
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	29,025	29,025
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	29,025	29,025
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					29,025
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					29,025
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					29,025
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					29,025
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					29,025
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					29,025
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					29,025

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:31 pm
 FILE NAME RMIPEB94.PEE

BUILDING GROUP B

WBS CODE 1.1.2.3.4.3

WASTE MANAGEMENT

SHIPMENTS AND DISPOSAL

QUANTITY UM

SUB CONTRACTOR

RMI &

OTHER COSTS

MAN HOURS

LABOR

MATERIAL

UNIT TOTAL
 RATE HOURS

CREW UNIT TOTAL
 RATE COST COST

UNIT TOTAL
 COST COST

UNIT TOTAL
 COST COST

TOTAL
 COST

3.4 COMPRESSOR ROOM

Ship & Dispose S/L Containers	2	ea							13,765	27,530	27,530
Ship & Dispose B-25 Containers	1	ea							1,358	1,358	1,358
Ship & Dispose 55 Gallon Drum	1	ea							137	137	137
TOTAL COMPRESSOR ROOM									0	0	0
										29,025	\$ 29,025

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL
BUILDING GROUP "B" - WW TREATMT PLANT

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	WASTE WATER TREATMENT PLANT	0	0	0	114,468	114,468
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	114,468	114,468
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	114,468	114,468
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	114,468	114,468
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	114,468	114,468
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	114,468	114,468
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	114,468	114,468
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%		0		0
28	SUBTOTAL					114,468
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					114,468
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					114,468
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					114,468
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					114,468
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					114,468
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					114,468

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:31 PM
 FILE NAME RMI5EB94.FEE

BUILDING GROUP B
 WBS CODE 1.1.2.1.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

SUBCONTRACTOR

QUANTITY	UM	MAN HOURS		CREW		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	UNIT RATE	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
8	ea											110,120
3	ea											4,074
2	ea											274
TOTAL WASTE WATER TREATMENT PLANT											114,468	\$ 114,468

3.5 WASTE WATER TREATMENT PLANT

Ship & Dispose S/L Containers
 Ship & Dispose B-25 Containers
 Ship & Dispose 55 Gallon Drum

TOTAL WASTE WATER TREATMENT PLANT

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.4.3
DESCRIPTION: WASTE MANAGEMENT – SHIPMENTS AND DISPOSAL
BUILDING GROUP "B" – SEWAGE TREATMT PLANT

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
6	SEWAGE TREATMENT PLANT	0	0	0	57,913	57,913
13	SUBTOTAL DIRECTS	0	0	0	57,913	57,913
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	57,913	57,913
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	57,913	57,913
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	57,913	57,913
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	57,913	57,913
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	57,913	57,913
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					57,913
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					57,913
31	RIP ENGINEERING	0.0%				0
32	SUBTOTAL					57,913
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					57,913
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					57,913
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					57,913
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					57,913

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						R M I &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.6 SEWAGE TREATMENT FACILITY

Ship & Dispose S/L Containers	4	ea							13,765	55,060	55,060
Ship & Dispose B-25 Containers	2	ea							1,358	2,716	2,716
Ship & Dispose 55 Gallon Drum	1	ea							137	137	137

T: SEWAGE TREATMENT FACILITY 0 0 0 57,913 \$ 57,913

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	Sample Containers & Shipping costs					
		(See M&S portions of Staffing Task Analysis)				
2	Waste Water Treatment Plant	0	0	0	25,421	25,421
3	Substation	0	0	0	13,945	13,945
4	Compressor Room	0	0	0	12,429	12,429
5	Sewage Disposal Plant	0	0	0	12,429	12,429
6						0
7						0
8						0
9						0
10						0
11						0
12						0
13	SUBTOTAL DIRECTS	0	0	0	64,224	64,224
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	64,224	64,224
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	64,224	64,224
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	64,224	64,224
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	64,224	64,224
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	64,224	64,224
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					64,224
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					64,224
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					64,224
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					64,224
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					64,224
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					64,224
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					64,224

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP B
 WBS CODE 1.1.2.3.6.
 LABORATORY SERVICES

QUANTITY	UM	SUB CONTRACTOR									TOTAL COST	
		MAN HOURS		LABOR		MATERIAL		RMI & OTHER COSTS				
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		
Sample Containers & Shipping Bldg Group "B"	300	ea										
Lab Service Analysis Fee Waste Water Treatment Plant	186	ea							137	25,421		25,421
Lab Service Analysis Fee Substation	141	ea							99	13,945		13,945
Lab Service Analysis Fee Compressor Room	135	ea							92	12,429		12,429
Lab Service Analysis Fee Sewage Disposal Plant	135	ea							92	12,429		12,429
TOTAL										64,224	5	64,224

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	Waste Water Treatment Plant	0	0	0	25,421	25,421
2						0
3						0
4						0
5						0
6						0
7						0
8						0
9						0
10						0
11						0
12						0
13	SUBTOTAL DIRECTS	0	0	0	25,421	25,421
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	25,421	25,421
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	25,421	25,421
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	25,421	25,421
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	25,421	25,421
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	25,421	25,421
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					25,421
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					25,421
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					25,421
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					25,421
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					25,421
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					25,421
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					25,421

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "B"

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1					0
2	Substation	0	0	0	13,945
3					0
4					0
5					0
6					0
7					0
8					0
9					0
10					0
11					0
12					0
13	SUBTOTAL DIRECTS	0	0	0	13,945
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0
17	SUBTOTAL		0	0	13,945
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0
19	SUBTOTAL		0	0	13,945
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0
21	SUBTOTAL		0	0	13,945
22	CRAFT SUPERVISION	0.0%	0	0	0
23	SUBTOTAL		0	0	13,945
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0
25	SALES TAX	0.0%	0	0	0
26	SUBTOTAL		0	0	13,945
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%			0
28	SUBTOTAL				13,945
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%			0
30	SUBTOTAL				13,945
31	RMI ENGINEERING	0.0%			0
32	SUBTOTAL				13,945
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%			0
34	SUBTOTAL				13,945
35	FIELD WORK ADMINISTRATION	0.0%			0
36	SUBTOTAL				13,945
37	ALL RISK INSURANCE	0.0%			0
38	SUBTOTAL				13,945
39	PERFORMANCE & PAYMENT BOND	0.0%			0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation				13,945

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						0
2						0
3	Compressor Room	0	0	0	12,429	12,429
4						0
5						0
6						0
7						0
8						0
9						0
10						0
11						0
12						0
13	SUBTOTAL DIRECTS	0	0	0	12,429	12,429
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	12,429	12,429
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	12,429	12,429
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	12,429	12,429
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	12,429	12,429
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	12,429	12,429
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					12,429
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					12,429
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					12,429
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					12,429
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					12,429
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					12,429
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					12,429

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.3.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "B"

10-FEB-94

#	DESCRIPTION	MARKUP	FIELD LABOR			RMI & SUBS	TOTAL COST
			MHR	LABOR	MATERIAL		
DIRECT COSTS							
1							
2							0
3							0
4	Sewage Disposal Plant		0	0	0	12,429	12,429
5							0
6							0
7							0
8							0
9							0
10							0
11							0
12							0
13	SUBTOTAL DIRECTS		0	0	0	12,429	12,429
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0			0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0			0
16	JOB CONDITION FACTOR	0.0%	0	0			0
17	SUBTOTAL		0	0	0	12,429	12,429
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0		0
19	SUBTOTAL		0	0	0	12,429	12,429
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0			0
21	SUBTOTAL		0	0	0	12,429	12,429
22	CRAFT SUPERVISION	0.0%	0	0			0
23	SUBTOTAL		0	0	0	12,429	12,429
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0			0
25	SALES TAX	0.0%			0		0
26	SUBTOTAL		0	0	0	12,429	12,429
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%					0
28	SUBTOTAL						12,429
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%					0
30	SUBTOTAL						12,429
31	RMI ENGINEERING	0.0%					0
32	SUBTOTAL						12,429
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%					0
34	SUBTOTAL						12,429
35	FIELD WORK ADMINISTRATION	0.0%					0
36	SUBTOTAL						12,429
37	ALL RISK INSURANCE	0.0%					0
38	SUBTOTAL						12,429
39	PERFORMANCE & PAYMENT BOND	0.0%					0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation						12,429

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GUIDELINES FOR CONSTRUCTION ESTIMATES

Equipment Remediation Group "B"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	1
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	0
Fumes, Dusts, Hazards	0 - 10	2	2
Material Handling Conditions (Distance, receiving)	0 - 3	1	2
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	3
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0 11%

GUIDELINES FOR CONSTRUCTION ESTIMATES

Building Remediation Group "B"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	3
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	3
Fumes, Dusts, hazards	0 - 10	2	2
Material Handling Conditions (Distance, receiving)	0 - 3	1	2
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	3
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0 16%

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

EQUIPMENT REMEDIATION GROUP "B"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 16.9%

TOTAL - 25.9%

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)
Building Remediation Group "B"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.4%

TOTAL - 26.4%

BUILDINGS GROUP "C"

1.1.2.4

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4
DESCRIPTION: BUILDING GROUP "C"

10-FEB-94

DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
	MHRS	LABOR	MATERIAL		
DIRECT COSTS					
1 TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	6,400	6,400
2 CHARACTERIZATION	(See separate Staffing Task Analysis)				
3 EQUIPMENT REMEDIATION	21	410	6	0	416
4 BUILDING REMEDIATION	534	10,738	3,395	0	14,133
5 WASTE MANAGEMENT - HANDLING AND PACKAGING	0	0	0	23,756	23,756
6 WASTE MANAGEMENT - STAGING AND STORAGE	(See separate Staffing Task Analysis)				
7 WASTE MANAGEMENT - SHIPMENT AND DISPOSAL	0	0	0	426,754	426,754
8 ENVIRONMENTAL SAFETY AND HEALTH	(See separate Staffing Task Analysis)				
9 LABORATORY SERVICES	0	0	0	27,889	27,889
10 Rounding to the nearest \$100				56	56
11 RMI Staffing Plan - Labor	(See separate Staffing Task Analysis)				
12 RMI Staffing Plan - Supplies	(See separate Staffing Task Analysis)				
13 SUBTOTAL DIRECTS	555	11,148	3,401	484,855	499,404
14 RADIOLOGICAL CONDITIONS FACTOR	34.2%	190	3,812		3,812
15 HP & SAFETY TRAINING FACTOR	7.5%	42	836		836
16 JOB CONDITION FACTOR	13.8%	77	1,536		1,536
17 SUBTOTAL		864	17,332	3,401	505,588
18 CONSTRUCTION EQUIPMENT	45.0%	27	546	7,253	7,799
19 SUBTOTAL		891	17,878	10,654	513,387
20 CONSTRUCTION SUPPORT COSTS	26.5%	236	4,741		4,741
21 SUBTOTAL		1,127	22,619	10,654	518,128
22 CRAFT SUPERVISION	15.0%	169	3,564		3,564
23 SUBTOTAL		1,296	26,183	10,654	521,692
24 LABOR FRINGES/PAYROLL TAXES	42.7%		11,180		11,180
25 SALES TAX	6.0%			639	639
26 SUBTOTAL		1,296	37,363	11,293	533,511
27 SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28 SUBTOTAL					533,511
29 SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30 SUBTOTAL					533,511
31 RMI ENGINEERING	4.0%				1,946
32 SUBTOTAL					535,457
33 SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34 SUBTOTAL					535,457
35 FIELD WORK ADMINISTRATION	5.0%				2,530
36 SUBTOTAL					537,987
37 ALL RISK INSURANCE	0.4%				213
38 SUBTOTAL					538,200
39 PERFORMANCE & PAYMENT BOND	0.0%				0
40 Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					538,200

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.3.1
DESCRIPTION: EQUIPMENT REMEDIATION
BUILDING GROUP "C"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	EMERGENCY EQUIPMENT STORAGE BUILDING	21	410	6	0	416
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	21	410	6	0	416
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	7	140		140
15	HP & SAFETY TRAINING FACTOR	7.5%	2	31		31
16	JOB CONDITION FACTOR	8.0%	2	33		33
17	SUBTOTAL		32	614	6	620
18	CONSTRUCTION EQUIPMENT	45.0%	1	19	257	276
19	SUBTOTAL		33	633	263	896
20	CONSTRUCTION SUPPORT COSTS	26.7%	9	176		176
21	SUBTOTAL		42	809	263	1,072
22	CRAFT SUPERVISION	15.0%	6	123		123
23	SUBTOTAL		48	932	263	1,195
24	LABOR FRINGES/PAYROLL TAXES	42.7%		398		398
25	SALES TAX	6.0%			16	16
26	SUBTOTAL		48	1,330	279	1,609
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,609
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,609
31	RMI ENGINEERING	4.0%				64
32	SUBTOTAL					1,673
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,673
35	FIELD WORK ADMINISTRATION	5.0%				84
36	SUBTOTAL					1,757
37	ALL RISK INSURANCE	0.4%				7
38	SUBTOTAL					1,764
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,764

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 5 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:32 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP C WBS CODE 1.1.2.4.3.1 BUILDING REMEDIATION OPERATIONS EQUIPMENT REMEDIATION	QUANTITY	UM	SUB CONTRACTOR						RMI &		TOTAL COST
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.7.2 EMERGENCY EQUIPMENT STORAGE BUILDING

Demo Equipment	.4 ton		42.00	17	20.17	847.14	339	15.00	6		345
Free Release Equipment	.1 ton		35.00	4	20.17	705.95	71				71
TOTAL EMERGENCY EQUIPMENT STORAGE BUILDING				21			410		6	0	416

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "C"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HAZARDOUS WASTE STORAGE BUILDING	440	8,836	2,795	0	11,631
2	EMERGENCY EQUIPMENT STORAGE BUILDING	94	1,902	600	0	2,502
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	534	10,738	3,395	0	14,133
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	183	3,672		3,672
15	HP & SAFETY TRAINING FACTOR	7.5%	40	805		805
16	JOB CONDITION FACTOR	14.0%	75	1,503		1,503
17	SUBTOTAL		832	16,718	3,395	20,113
18	CONSTRUCTION EQUIPMENT	45.0%	26	527	6,996	7,523
19	SUBTOTAL		858	17,245	10,391	27,636
20	CONSTRUCTION SUPPORT COSTS	26.4%	227	4,565		4,565
21	SUBTOTAL		1,085	21,810	10,391	32,201
22	CRAFT SUPERVISION	15.0%	163	3,441		3,441
23	SUBTOTAL		1,248	25,251	10,391	35,642
24	LABOR FRINGES/PAYROLL TAXES	42.7%		10,782		10,782
25	SALES TAX	6.0%			623	623
26	SUBTOTAL		1,248	36,033	11,014	47,047
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					47,047
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					47,047
31	RMI ENGINEERING	4.0%				1,882
32	SUBTOTAL					48,929
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					48,929
35	FIELD WORK ADMINISTRATION	5.0%				2,446
36	SUBTOTAL					51,375
37	ALL RISK INSURANCE	0.4%				206
38	SUBTOTAL					51,581
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					51,581

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "C" - Haz Waste Storage Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRs	LABOR	MATERIAL		
DIRECT COSTS						
1	HAZARDOUS WASTE STORAGE BUILDING	440	8,836	2,795	0	11,631
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	440	8,836	2,795	0	11,631
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	150	3,022		3,022
15	HP & SAFETY TRAINING FACTOR	7.5%	33	663		663
16	JOB CONDITION FACTOR	14.0%	62	1,237		1,237
17	SUBTOTAL		685	13,758	2,795	16,553
18	CONSTRUCTION EQUIPMENT	45.0%	22	433	5,758	6,191
19	SUBTOTAL		707	14,191	8,553	22,744
20	CONSTRUCTION SUPPORT COSTS	26.4%	187	3,755		3,755
21	SUBTOTAL		894	17,946	8,553	26,499
22	CRAFT SUPERVISION	15.0%	134	2,825		2,825
23	SUBTOTAL		1,028	20,771	8,553	29,324
24	LABOR FRINGES/PAYROLL TAXES	42.7%		8,869		8,869
25	SALES TAX	6.0%		513		513
26	SUBTOTAL		1,028	29,640	9,066	38,706
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					38,706
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					38,706
31	RMI ENGINEERING	4.0%				1,548
32	SUBTOTAL					40,254
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					40,254
35	FIELD WORK ADMINISTRATION	5.0%				2,013
36	SUBTOTAL					42,267
37	ALL RISK INSURANCE	0.4%				169
38	SUBTOTAL					42,436
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					42,436

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP C WBS CODE 1.1.2.4.3.2 BUILDING REMEDIATION OPERATIONS BUILDING REMEDIATION	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST			

3.1 HAZARDOUS WASTE STORAGE BUILDING

Containment & Setup	640	sf	.25	160	20.17	5.04	3,227	3.00	1,920			5,147
Apply Fixative Coating	50	sf	.01	1	20.17	.20	10	.19	10			20
Rem Elect Distribution	5.5	cf	.20	1	20.17	4.03	22	.10	1			23
Install Temporary Power	530	sf	.02	8	20.17	.30	160	.50	265			425
Internal Misc. Steel	.2	ton	30.00	6	20.17	605.10	121	15.00	3			124
Demo Exterior Walls	1,413	sf	.04	57	20.17	.81	1,140	.10	141			1,281
Demo Doors	11	cf	1.50	17	20.17	30.26	333	.10	1			334
Demo Roofing System	640	sf	.05	29	20.17	.91	581	.10	64			645
Demo Wood Purlins	76	sf	.22	17	20.17	4.44	337	.10	8			345
Demo Structural Steel	2	ton	40.00	60	20.17	806.80	1,614	15.00	30			1,644
Vacu-Blast Concrete Slab 1/4"	640	sf	.10	64	20.17	2.02	1,291	.55	352			1,643
TOTAL HAZARDOUS WASTE STORAGE BUILDING				440			8,836		2,795			11,631

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.3.2
 DESCRIPTION: BUILDING REMEDIATION
 BUILDING GROUP "C" - Emergency Equipmt Storage Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	EMERGENCY EQUIPMENT STORAGE BUILDING	94	1,902	600	0	2,502
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	94	1,902	600	0	2,502
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	32	650		650
15	HP & SAFETY TRAINING FACTOR	7.5%	7	143		143
16	JOB CONDITION FACTOR	14.0%	13	266		266
17	SUBTOTAL		146	2,961	600	3,561
18	CONSTRUCTION EQUIPMENT	45.0%	5	93	1,239	1,332
19	SUBTOTAL		151	3,054	1,839	4,893
20	CONSTRUCTION SUPPORT COSTS	26.4%	40	809		809
21	SUBTOTAL		191	3,863	1,839	5,702
22	CRAFT SUPERVISION	15.0%	29	616		616
23	SUBTOTAL		220	4,479	1,839	6,318
24	LABOR FRINGES/PAYROLL TAXES	42.7%		1,913		1,913
25	SALES TAX	6.0%		110		110
26	SUBTOTAL		220	6,392	1,949	8,341
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					8,341
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,341
31	RMI ENGINEERING	4.0%				334
32	SUBTOTAL					8,675
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,675
35	FIELD WORK ADMINISTRATION	5.0%				434
36	SUBTOTAL					9,109
37	ALL RISK INSURANCE	0.4%				36
38	SUBTOTAL					9,145
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					9,145

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 pm
 FILE NAME RMIPEB94.PES

BUILDING GROUP C WBS CODE 1.1.2.4.3.2 BUILDING REMEDIATION OPERATIONS BUILDING REMEDIATION	QUANTITY	UM	SUB CONTRACTOR					RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST
3.2 EMERGENCY EQUIPMENT STORAGE BUILDING										
Containment & Setup	120	sf	.25	30	20.17	5.04	605	3.00	360	965
Apply Fixative Coating	50	sf	.01	1	20.17	.20	10	.19	10	20
Rem Elect Distribution	1.5	cf	.20		20.17	4.03	6	.10		6
Install Temporary Power	120	sf	.02	2	20.17	.30	36	.50	60	96
Demo Exterior Walls	480	sf	.03	14	20.17	.61	290	.10	48	338
Demo Roofing System	480	sf	.03	15	20.17	.65	310	.10	48	358
Demo Structural Steel	.5	ton	40.00	20	20.17	806.80	403	15.00	8	411
Vacu-Blast Concrete Slab 1/4"	120	sf	.10	12	20.17	2.02	242	.55	66	308
TOTAL EMERGENCY EQUIPMENT STORAGE BUILDING				94			1,902		600	0 \$ 2,502

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "C"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HAZARDOUS WASTE STORAGE BUILDING	0	0	0	17,393	10,393
2	EMERGENCY EQUIPMENT STORAGE BUILDING	0	0	0	13,363	13,363
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	23,756	23,756
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	23,756	23,756
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	23,756	23,756
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	23,756	23,756
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	23,756	23,756
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	23,756	23,756
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					23,756
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					23,756
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					23,756
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					23,756
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					23,756
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					23,756
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					23,756

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.4.1

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "C" - Haz Waste Storage Bldg

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HAZARDOUS WASTE STORAGE BUILDING	0	0	0	10,393	10,393
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	10,393	10,393
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	10,393	10,393
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	10,393	10,393
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	10,393	10,393
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	10,393	10,393
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	10,393	10,393
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					10,393
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					10,393
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					10,393
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					10,393
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					10,393
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					10,393
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					10,393

fn=1124c.wk3

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 pm
 FILE NAME RMIFEB94.PEE

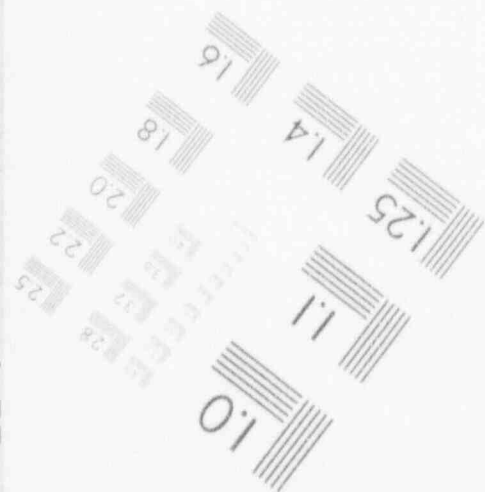
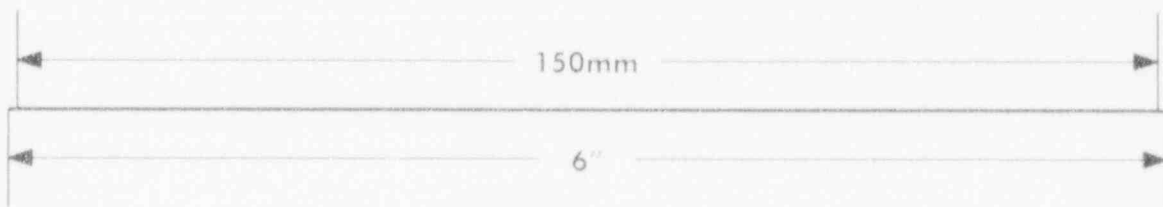
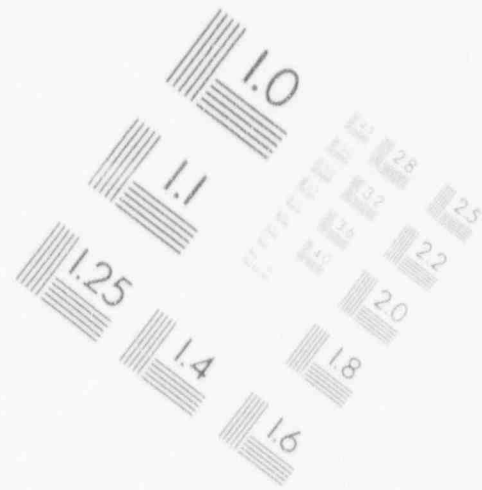
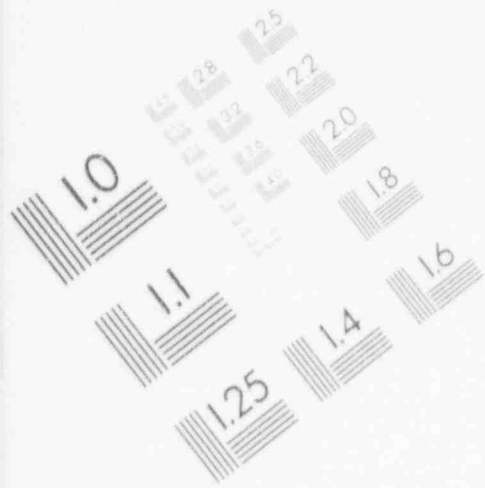
BUILDING GROUP C WBS CODE 1.1.2.4.4.1 WASTE MANAGEMENT HANDLING AND PACKAGING	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST			

3.1 HAZARDOUS WASTE STORAGE BUILDING

Hndl & Pack SeaLand Containers	1	ea							3,564	3,564	3,564
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack B-25 Containers	1	ea							473	473	473
Quantity per "BURIAL BOX ESTIMATE"											
rev 6 9/13/93											
Hndl & Pack 55 Gallon Drums	102	ea							56	5,712	5,712
Mixed Hazardous Waste											
Hndl & Pack 55 Gallon Drums	1	ea							56	56	56
Spent Radiological Blast Waste											
Sales Tax	6	pct							9,805	588	588
TOTAL HAZARDOUS WASTE STORAGE BUILDING										10,393	\$ 10,393

2

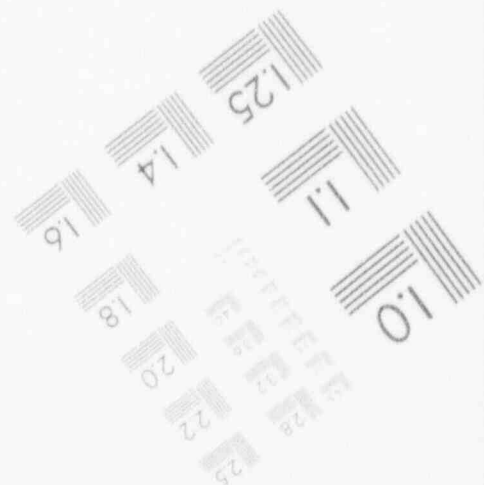
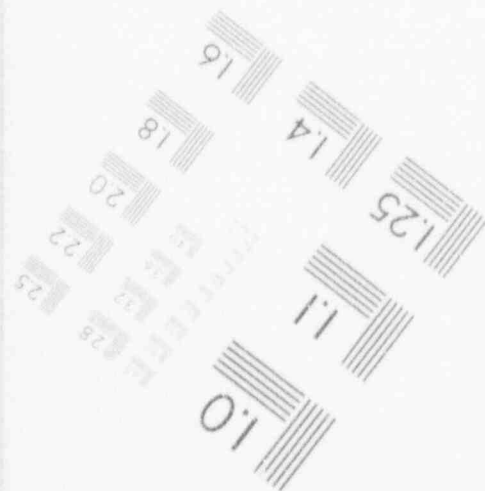
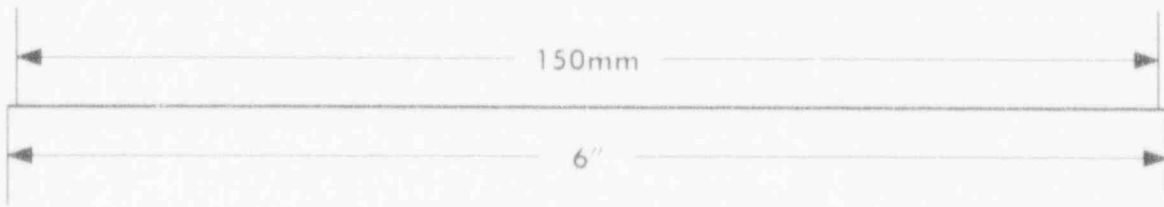
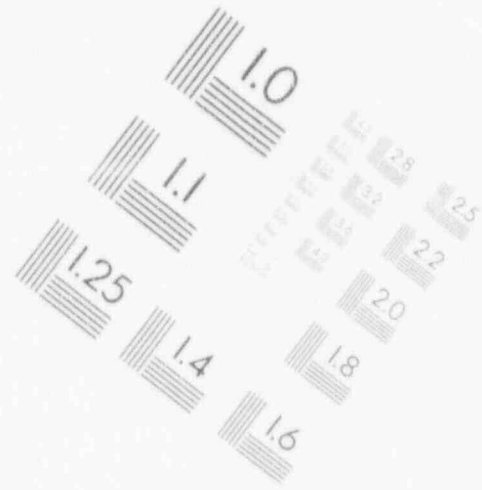
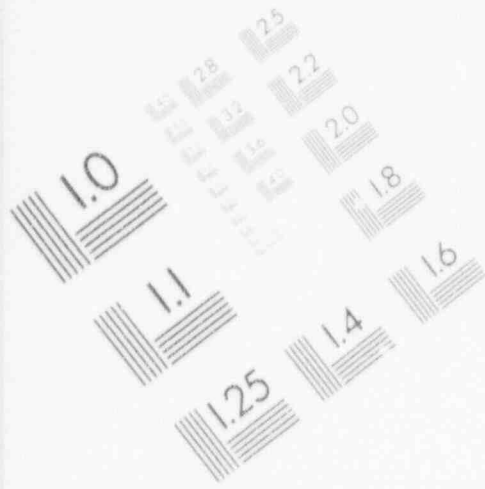
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

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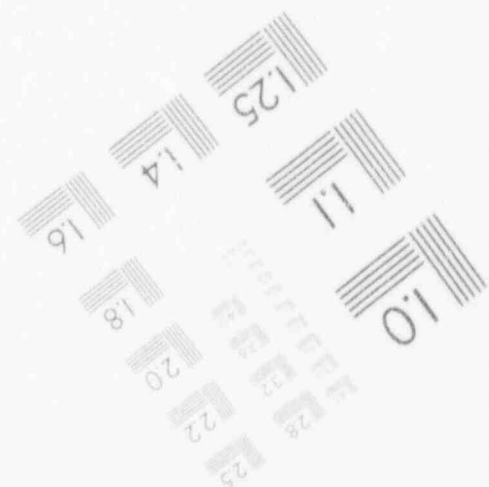
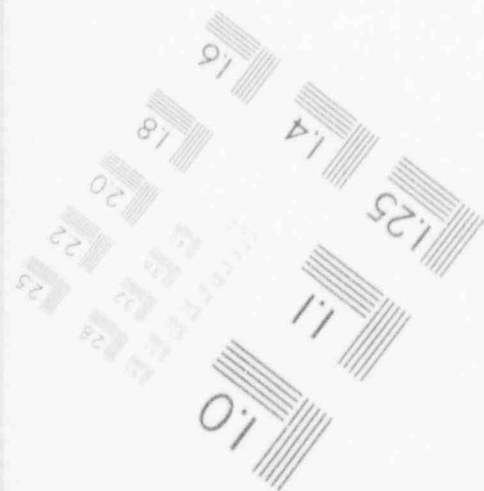
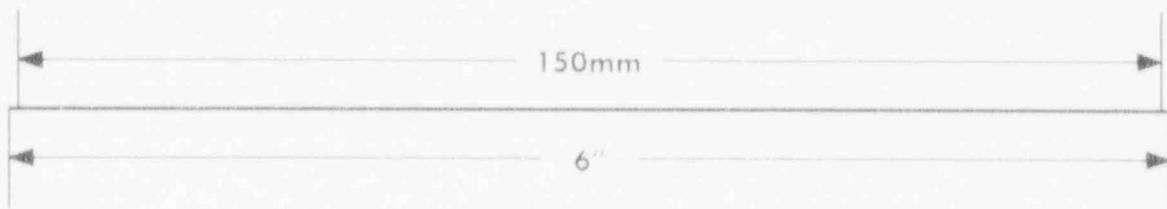
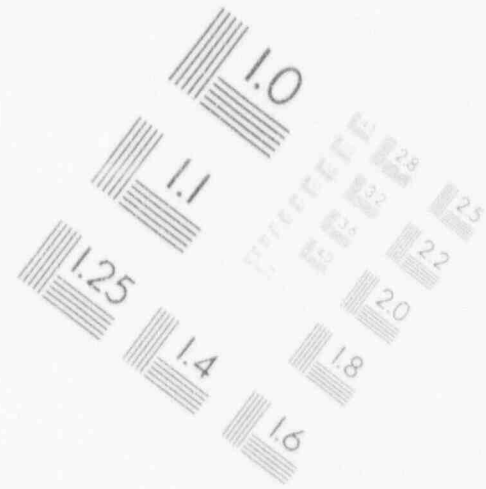
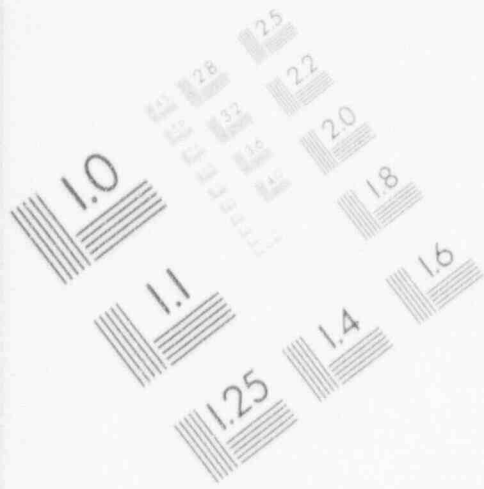
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
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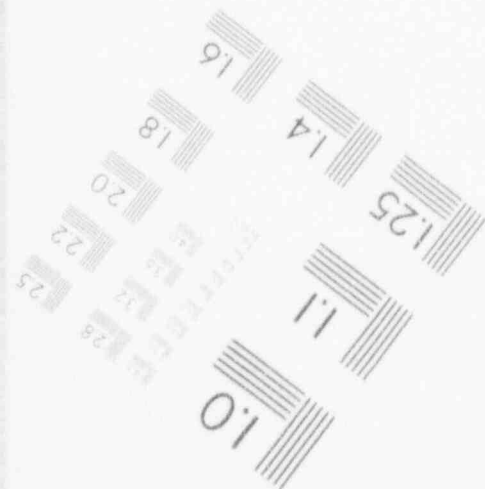
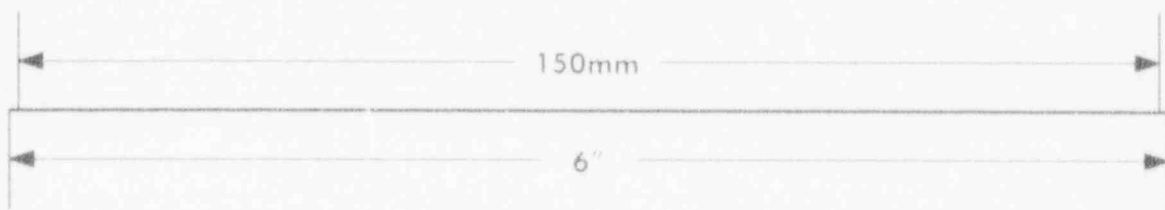
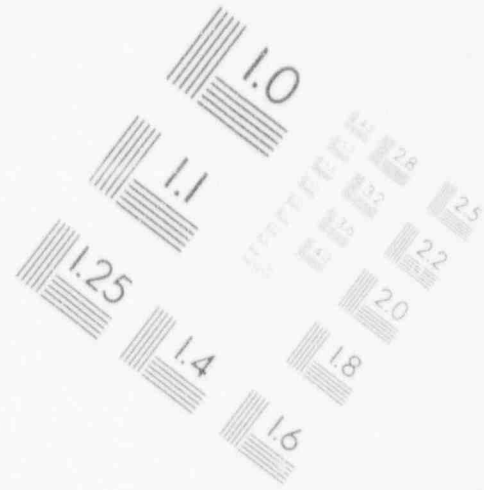
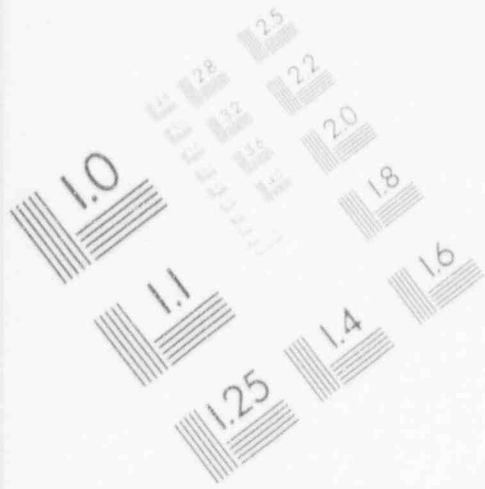
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

2

IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "C" - Emergency Equipmt Storage Bldg

10-FEB-94

DESCRIPTION	MHS	FIELD LABOR			RMI & SUBS	TOTAL COST
		LABOR	MATERIAL			
DIRECT COSTS						
1						
2	EMERGENCY EQUIPMENT STORAGE BUILDING	0	0	0	13,363	13,363
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	13,363	13,363
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	13,363	13,363
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	13,363	13,363
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	13,363	13,363
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	13,363	13,363
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	13,363	13,363
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					13,363
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					13,363
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					13,363
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					13,363
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					13,363
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					13,363
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					13,363

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENT AND DISPOSAL
BUILDING GROUP "C"

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	HAZARDOUS WASTE STORAGE BUILDING	0	0	0	387,050	387,050
2	EMERGENCY EQUIPMENT STORAGE BUILDING	0	0	0	39,704	39,704
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	426,754	426,754
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0	0
17	SUBTOTAL		0	0	426,754	426,754
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL		0	0	426,754	426,754
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0	0
21	SUBTOTAL		0	0	426,754	426,754
22	CRAFT SUPERVISION	0.0%	0	0	0	0
23	SUBTOTAL		0	0	426,754	426,754
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0	0
25	SALES TAX	0.0%	0	0	0	0
26	SUBTOTAL		0	0	426,754	426,754
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					426,754
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					426,754
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					426,754
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					426,754
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					426,754
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					426,754
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					426,754

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.4.3
DESCRIPTION: WASTE MANAGEMENT - SHIPMENT AND DISPOSAL
BUILDING GROUP "C" - Haz Waste Storage Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HAZARDOUS WASTE STORAGE BUILDING	0	0	0	387,050	387,050
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	387,050	387,050
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	387,050	387,050
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	387,050	387,050
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	387,050	387,050
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	387,050	387,050
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	387,050	387,050
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%		0		0
28	SUBTOTAL					387,050
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					387,050
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					387,050
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					387,050
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					387,050
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					387,050
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					387,050

fm=1124c.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 pm
 FILE NAME RMI FEB94.PEE

BUILDING GROUP C
 WBS CODE 1.1.2.4.4.3

WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						R M I &		
		MAN H		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		

3.1 HAZARDOUS WASTE STORAGE BUILDING

Ship & Dispose S/L Containers	1	ea								13,765	13,765	13,765		
Ship & Dispose B-25 Containers	1	ea								1,358	1,358	1,358		
Ship & Dispose 55 Gallon Drums to Environcare of Utah	102	ea								3,645	371,790	371,790		
Ship & Dispose 55 Gallon Drums	1	ea								137	137	137		
TOTAL HAZARDOUS WASTE STORAGE BUILDING										0	0	0		
												387,050	\$	387,050

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.4.3

10-FEB-94

DESCRIPTION: WASTE MANAGEMENT - SHIPMENT AND DISPOSAL
BUILDING GROUP "C" - Emergency Equipmt Storage Bldg

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR'S	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	EMERGENCY EQUIPMENT STORAGE BUILDING	0	0	0	39,704	39,704
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	39,704	39,704
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	39,704	39,704
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	39,704	39,704
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	39,704	39,704
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	39,704	39,704
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	39,704	39,704
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					39,704
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					39,704
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					39,704
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					39,704
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					39,704
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					39,704
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					39,704

fn=1124c.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:32 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP C
 WBS CODE 1.1.2.4.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

SUB CONTRACTOR

MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL
UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	COST
RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	

3.2 EMERGENCY EQUIPMENT STORAGE BUILDING

Ship & Dispose 5/L Containers	1	ea						13,765	13,765	13,765
Ship & Dispose B-25 Containers	19	ea						1,358	25,802	25,802
Ship & Dispose 55 Gallon Drums	1	ea						137	137	137
TOTAL EMERGENCY EQUIPMENT STORAGE BUILDING			0					0	39,704	\$ 39,704

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "C"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	Sample Containers & Shipping		(See M&S portion of Staffing Task Analysis)			
2	RCRA Storage Bldg	0	0	0	15,460	15,460
3	Emergency Equipment Bldg	0	0	0	12,429	12,429
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	27,889	27,889
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	27,889	27,889
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	27,889	27,889
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	27,889	27,889
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	27,889	27,889
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL	0	0	0	27,889	27,889
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					27,889
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					27,889
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					27,889
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					27,889
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					27,889
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					27,889
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					27,889

fn=1124cwk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:33 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP C
 WBS CODE 1.1.2.4.6.
 LABORATORY SERVICES

QUANTITY	UM	SUB CONTRACTOR									R M I &				
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL	COST			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL					
RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST						
Sample Containers & Shipping Bldg Group "C"	141	ea													
Lab Service Analysis Fee RCRA Storage Bldg	147	ea										105	15,460	15,460	
Lab Service Analysis Fee Emergency Equipment Bldg	135	ea										92	12,429	12,429	
TOTAL													0	0	0
													27,889	\$	27,889

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "C"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	RCRA Storage Bldg	0	0	0	15,460	15,460
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	15,460	15,460
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	15,460	15,460
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	15,460	15,460
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	15,460	15,460
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	15,460	15,460
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	15,460	15,460
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					15,460
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					15,460
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					15,460
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					15,460
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					15,460
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					15,460
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					15,460

fm=1124cwk3

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.4.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "C"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						0
2	Emergency Equipment Bldg	0	0	0	12,429	12,429
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	12,429	12,429
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	12,429	12,429
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	12,429	12,429
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	12,429	12,429
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	12,429	12,429
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	12,429	12,429
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					12,429
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					12,429
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					12,429
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					12,429
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					12,429
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					12,429
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					12,429

fn=1124c.wk3

GUIDELINES FOR CONSTRUCTION ESTIMATES

Equipment Remediation Group "C"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	1
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	0
Fumes, Dusts, Hazards	0 - 10	2	2
Material Handling Conditions (Distance, receiving)	0 - 3	1	2
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	0
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	<u>0</u> 8%

GUIDELINES FOR CONSTRUCTION ESTIMATES

Building Remediation Group "C"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	3
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	3
Fumes, Dusts, Hazards	0 - 10	2	2
Material Handling Conditions (Distance, receiving)	0 - 3	1	3
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	0
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0
			14%

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

EQUIPMENT REMEDIATION GROUP "C"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

 2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0%

 3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

 4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

 5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - %

 6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.7%
- TOTAL - 26.7%

BUILDINGS GROUP "D"

1.1.2.5

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5
DESCRIPTION: BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	5,000	5,000
2	CHARACTERIZATION	(See separate Staffing Task Analysis)				
3	EQUIPMENT REMEDIATION	0	0	0	0	0
4	BUILDING REMEDIATION	4,075	79,786	1,850	0	81,636
5	WASTE MANAGEMENT - HANDLING AND PACKAGING	0	0	0	27,852	27,852
6	WASTE MANAGEMENT - STAGING AND STORAGE	(See separate Staffing Task Analysis)				
7	WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL	0	0	0	99,345	99,345
8	ENVIRONMENTAL SAFETY AND HEALTH	(See separate Staffing Task Analysis)				
9	LABORATORY SERVICES	0	0	0	116,560	116,560
10	Rounding to the nearest \$100				96	96
11	RMI Staffing Plan - Labor	(See separate Staffing Task Analysis)				
12	RMI Staffing Plan - Supplies	(See separate Staffing Task Analysis)				
13	SUBTOTAL DIRECTS	4,075	79,786	1,850	248,853	330,489
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,394	27,287		27,287
15	HP & SAFETY TRAINING FACTOR	7.5%	306	5,984		5,984
16	JOB CONDITION FACTOR	6.0%	245	4,787		4,787
17	SUBTOTAL		6,020	117,844	1,850	368,547
18	CONSTRUCTION EQUIPMENT	45.0%	190	3,712	49,318	53,030
19	SUBTOTAL		6,210	121,556	51,168	421,577
20	CONSTRUCTION SUPPORT COSTS	26.4%	1,639	32,092		32,092
21	SUBTOTAL		7,849	153,648	51,168	453,669
22	CRAFT SUPERVISION	15.0%	1,177	24,223		24,223
23	SUBTOTAL		9,026	177,871	51,168	477,892
24	LABOR FRINGES/PAYROLL TAXES	42.7%		75,951		75,951
25	SALES TAX	6.0%		3,070		3,070
26	SUBTOTAL		9,026	253,822	54,238	556,913
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					556,913
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					556,913
31	RMI ENGINEERING	4.0%				12,322
32	SUBTOTAL					569,235
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					569,235
35	FIELD WORK ADMINISTRATION	5.0%				16,019
36	SUBTOTAL					585,254
37	ALL RISK INSURANCE	0.4%				1,346
38	SUBTOTAL					586,600
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					586,600

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5
DESCRIPTION: BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	5,000	5,000
2	CHARACTERIZATION		(See separate Staffing Task Analysis)			
3	EQUIPMENT REMEDIATION	0	0	0	0	0
4	BUILDING REMEDIATION	4,075	79,786	1,850	0	81,636
5	WASTE MANAGEMENT - HANDLING AND PACKAGING	0	0	0	27,852	27,852
6	WASTE MANAGEMENT - STAGING AND STORAGE		(See separate Staffing Task Analysis)			
7	WASTE MANAGEMENT - SHIPMENTS AND DISPOSAL	0	0	0	99,345	99,345
8	ENVIRONMENTAL SAFETY AND HEALTH		(See separate Staffing Task Analysis)			
9	LABORATORY SERVICES	0	0	0	116,560	116,560
10	Rounding to the nearest \$100				96	96
11	RMI Staffing Plan - Labor		(See separate Staffing Task Analysis)			
12	RMI Staffing Plan - Supplies		(See separate Staffing Task Analysis)			
13	SUBTOTAL DIRECTS	4,075	79,786	1,850	248,853	330,489
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,394	27,287		27,287
15	HP & SAFETY TRAINING FACTOR	7.5%	306	5,984		5,984
16	JOB CONDITION FACTOR	6.0%	245	4,787		4,787
17	SUBTOTAL		6,020	117,844	1,850	248,853
18	CONSTRUCTION EQUIPMENT	45.0%	190	3,712	49,318	53,030
19	SUBTOTAL		6,210	121,556	51,168	248,853
20	CONSTRUCTION SUPPORT COSTS	26.4%	1,639	32,092		32,092
21	SUBTOTAL		7,849	153,648	51,168	248,853
22	CRAFT SUPERVISION	15.0%	1,177	24,223		24,223
23	SUBTOTAL		9,026	177,871	51,168	248,853
24	LABOR FRINGES/PAYROLL TAXES	42.7%		75,951		75,951
25	SALES TAX	6.0%			3,070	3,070
26	SUBTOTAL		9,026	253,822	54,238	248,853
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					556,913
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					556,913
31	RMI ENGINEERING	4.0%				12,322
32	SUBTOTAL					569,235
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					569,235
35	FIELD WORK ADMINISTRATION	5.0%				16,019
36	SUBTOTAL					585,254
37	ALL RISK INSURANCE	0.4%				1,346
38	SUBTOTAL					586,600
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					586,600

fn=1125d.wk3

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "D" - Existing Guardhouse

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	EXISTING GUARDHOUSE	47	948	150	0	1,098
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	47	948	150	0	1,098
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	16	324		324
15	HP & SAFETY TRAINING FACTOR	7.5%	4	71		71
16	JOB CONDITION FACTOR	6.0%	3	57		57
17	SUBTOTAL		70	1,400	150	0
18	CONSTRUCTION EQUIPMENT	45.0%	2	44	586	630
19	SUBTOTAL		72	1,444	736	0
20	CONSTRUCTION SUPPORT COSTS	26.4%	19	383		383
21	SUBTOTAL		91	1,827	736	0
22	CRAFT SUPERVISION	15.0%	14	296		296
23	SUBTOTAL		105	2,123	736	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		907		907
25	SALES TAX	6.0%		44		44
26	SUBTOTAL		105	3,030	780	0
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					3,810
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					3,810
31	RMI ENGINEERING	4.0%				152
32	SUBTOTAL					3,962
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					3,962
35	FIELD WORK ADMINISTRATION	5.0%				198
36	SUBTOTAL					4,160
37	ALL RISK INSURANCE	0.4%				17
38	SUBTOTAL					4,177
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					4,177

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	EXISTING GUARDHOUSE	47	948	150	0	1,098
2	ES & H BUILDING	135	2,724	350	0	3,074
3	MODULAR OFFICES	597	9,621	1,350	0	10,971
4	MODULAR LAB	2,808	56,637	0	0	56,637
5	TEMPORARY FACILITIES	488	9,856	0	0	9,856
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	4,075	79,786	1,850	0	81,636
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,394	27,287		27,287
15	HP & SAFETY TRAINING FACTOR	7.5%	306	5,984		5,984
16	JOB CONDITION FACTOR	6.0%	245	4,787		4,787
17	SUBTOTAL		6,020	117,844	1,850	119,694
18	CONSTRUCTION EQUIPMENT	45.0%	190	3,712	49,318	53,030
19	SUBTOTAL		6,210	121,556	51,168	172,724
20	CONSTRUCTION SUPPORT COSTS	26.4%	1,639	32,092		32,092
21	SUBTOTAL		7,849	153,648	51,168	204,816
22	CRAFT SUPERVISION	15.0%	1,177	24,223		24,223
23	SUBTOTAL		9,026	177,871	51,168	229,039
24	LABOR FRINGES/PAYROLL TAXES	42.7%		75,951		75,951
25	SALES TAX	6.0%		3,070		3,070
26	SUBTOTAL		9,026	253,822	54,238	308,060
27	SUBTIER SUBCONTRACTOR CH/FEE	0.00%				0
28	SUBTOTAL					308,060
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					308,060
31	RMI ENGINEERING	4.0%				12,322
32	SUBTOTAL					320,382
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					320,382
35	FIELD WORK ADMINISTRATION	5.0%				16,019
36	SUBTOTAL					336,401
37	ALL RISK INSURANCE	0.4%				1,346
38	SUBTOTAL					337,747
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					337,747

fm=1125d.wk3

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:33 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D WBS CODE 1.1.2.5.3.2 BUILDING REMEDIATION OPERATIONS BUILDING REMEDIATION	QUANTITY	UM	SUB CONTRACTOR						RMI &			
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST	
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST		TOTAL COST
HEPA Vacuuming	1	ls	12.00	12	20.17	242.04	242					242
Pressure Water Clean Exterior	1	ls	5.00	5	20.17	100.85	101					101
Carpet Cleaning - by RMI	1	ls										
Roof Replacement	1	ls	30.00	30	20.17	605.10	605	150.00	150			755
TOTAL EXISTING GUARDHOUSE				47		948			150		0	\$ 1,098

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "D" - ES&H Bldg

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	ES & H BUILDING	135	2,724	350	0	3,074
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	135	2,724	350	0	3,074
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	46	932		932
15	HP & SAFETY TRAINING FACTOR	7.5%	10	204		204
16	JOB CONDITION FACTOR	6.0%	8	163		163
17	SUBTOTAL		199	4,023	350	4,373
18	CONSTRUCTION EQUIPMENT	45.0%	6	127	1,683	1,810
19	SUBTOTAL		205	4,150	2,033	6,183
20	CONSTRUCTION SUPPORT COSTS	26.4%	54	1,090		1,090
21	SUBTOTAL		259	5,240	2,033	7,273
22	CRAFT SUPERVISION	15.0%	39	826		826
23	SUBTOTAL		298	6,066	2,033	8,099
24	LABOR FRINGES/PAYROLL TAXES	42.7%		2,590		2,590
25	SALES TAX	6.0%			122	122
26	SUBTOTAL		298	8,656	2,155	10,811
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					10,811
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					10,811
31	RMI ENGINEERING	4.0%				432
32	SUBTOTAL					11,243
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					11,243
35	FIELD WORK ADMINISTRATION	5.0%				562
36	SUBTOTAL					11,805
37	ALL RISK INSURANCE	0.4%				47
38	SUBTOTAL					11,852
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					11,852

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:33 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D
 WBS CODE 1.1.2.5.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

SUB CONTRACTOR

RMI &
 OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	
3.2 ES & H BUILDING											
HEPA Vacuuming	1	ls	40.00	40	20.17	806.80	807				807
Pressure Water Clean Exterior	1	ls	15.00	15	20.17	302.55	303				303
Carpet Cleaning - By RMI	1	ls									
Roof Replacement	1	ls	80.00	80	20.17	1,613.60	1,614	350.00	350		1,964
TOTAL ES & H BUILDING				135		2,724		350		0	3,074

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "D" - Modular Offices

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	MODULAR OFFICES	597	9,621	1,350	0	10,971
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	597	9,621	1,350	0	10,971
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	204	3,290		3,290
15	HP & SAFETY TRAINING FACTOR	7.5%	45	722		722
16	JOB CONDITION FACTOR	6.0%	36	577		577
17	SUBTOTAL		882	14,210	0	15,560
18	CONSTRUCTION EQUIPMENT	45.0%	28	448		6,395
19	SUBTOTAL		910	14,658	0	21,955
20	CONSTRUCTION SUPPORT COSTS	26.4%	240	3,869		3,869
21	SUBTOTAL		1,150	18,527	0	25,824
22	CRAFT SUPERVISION	15.0%	173	2,962		2,962
23	SUBTOTAL		1,323	21,489	0	28,786
24	LABOR FRINGES/PAYROLL TAXES	42.7%		9,176		9,176
25	SALES TAX	6.0%		438		438
26	SUBTOTAL		1,323	30,665	0	38,400
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					38,400
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					38,400
31	RMI ENGINEERING	4.0%				1,536
32	SUBTOTAL					39,936
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					39,936
35	FIELD WORK ADMINISTRATION	5.0%				1,997
36	SUBTOTAL					41,933
37	ALL RISK INSURANCE	0.4%				168
38	SUBTOTAL					42,101
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					42,101

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:33 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D

WBS CODE 1.1.2.5.3.2

BUILDING REMEDIATION OPERATIONS

BUILDING REMEDIATION

SUB CONTRACTOR

RMI &

OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST

3.3a MODULAR OFFICES

Building Demolition	75,600	cf	.01	454	20.17	.12	9,149				9,149
Load Debris Into Dumpster	78	cy	.30	23	20.17	6.05	472				472
D&D Debris - Dumpster rental	3	wk		120				300.00	900		900
Dumping Fee (Dumpster)	3	lds						150.00	450		450
TOTAL MODULAR OFFICES				597			9,621		1,350	0	10,971

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "D" - Modular Lab

10-FEB-94

13	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	MODULAR LAB	2,808	56,637	0	0	56,637
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	2,808	56,637	0	0	56,637
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	960	19,370		19,370
15	HP & SAFETY TRAINING FACTOR	7.5%	211	4,248		4,248
16	JOB CONDITION FACTOR	6.0%	168	3,398		3,398
17	SUBTOTAL		4,147	83,653	0	83,653
18	CONSTRUCTION EQUIPMENT	45.0%	131	2,635	35,009	37,644
19	SUBTOTAL		4,278	86,288	35,009	121,297
20	CONSTRUCTION SUPPORT COSTS	26.4%	1,129	22,772		22,772
21	SUBTOTAL		5,407	109,060	35,009	144,069
22	CRAFT SUPERVISION	15.0%	811	17,169		17,169
23	SUBTOTAL		6,218	126,229	35,009	161,238
24	LABOR FRINGES/PAYROLL TAXES	42.7%		53,900		53,900
25	SALES TAX	6.0%		2,101		2,101
26	SUBTOTAL		6,218	180,129	37,110	217,239
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					217,239
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					217,239
31	RMI ENGINEERING	4.0%				8,690
32	SUBTOTAL					225,929
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					225,929
35	FIELD WORK ADMINISTRATION	5.0%				11,296
36	SUBTOTAL					237,225
37	ALL RISK INSURANCE	0.4%				949
38	SUBTOTAL					238,174
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					238,174

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:33 PM
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D

WBS CODE 1.1.2.5.3.2

BUILDING REMEDIATION OPERATIONS

BUILDING REMEDIATION

SUBCONTRACTOR

RMI &

OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.3b MODULAR LAB

Building Demolition	46,800	cf	.06	2,808	20.17	1.21	56,637					56,637
TOTAL MODULAR LAB				2,808			56,637		0		0	\$ 56,637

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.3.2
DESCRIPTION: BUILDING REMEDIATION
BUILDING GROUP "D" - Temp Facilities

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4						
5	TEMPORARY FACILITIES	488	9,856			9,856
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	488	9,856	0	0	9,856
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	167	3,371		3,371
15	HP & SAFETY TRAINING FACTOR	7.5%	37	739		739
16	JOB CONDITION FACTOR	6.0%	29	591		591
17	SUBTOTAL		721	14,557	0	14,557
18	CONSTRUCTION EQUIPMENT	45.0%	23	459	6,092	6,551
19	SUBTOTAL		744	15,016	6,092	21,108
20	CONSTRUCTION SUPPORT COSTS	26.4%	196	3,959		3,959
21	SUBTOTAL		940	18,975	6,092	25,067
22	CRAFT SUPERVISION	15.0%	141	2,989		2,989
23	SUBTOTAL		1,081	21,964	6,092	28,056
24	LABOR FRINGES/PAYROLL TAXES	42.7%		9,379		9,379
25	SALES TAX	6.0%			366	366
26	SUBTOTAL		1,081	31,343	6,458	37,801
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					37,801
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					37,801
31	RMI ENGINEERING	4.0%				1,512
32	SUBTOTAL					39,313
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					39,313
35	FIELD WORK ADMINISTRATION	5.0%				1,966
36	SUBTOTAL					41,279
37	ALL RISK INSURANCE	0.4%				165
38	SUBTOTAL					41,444
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					41,444

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-16-94 @ 2:33 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D
 WBS CODE 1.1.2.5.3.2
 BUILDING REMEDIATION OPERATIONS
 BUILDING REMEDIATION

QUANTITY	UM	SUB CONTRACTOR						RMI &		TOTAL COST
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.1 DISPOSITION OF TEMP FACILITIES

Demo Temp Fence & Gate	714	lf	.05	32	20.17	.91	648			648
Remove Gravel Base	208	cy	.15	30	20.17	2.92	608			608
Remove Temp Underground Piping	350	lf	.05	18	20.17	1.05	367			367
Demo Conc Piers	2	cy	4.00	8	20.17	80.68	161			161
Demo Misc Conc & Temp Trailers	30	cy	1.34	40	20.17	27.03	811			811
Demo Temp Trailers	2	ea	120.00	240	20.17	2,420.40	4,841			4,841
Based on 11,520 of										
Disconnect Temp Elect & Phone	1	ls	24.00	24	20.17	484.08	484			484
Demo Temp Elect Poles & Util	1	ls	96.00	96	20.17	1,936.32	1,936			1,936
TOTAL DISPOSITION OF TEMP FACILITIES				488			9,856	0	0	9,856

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.4.1
DESCRIPTION: WASTE MANAGEMENT - HANDLING AND PACKAGING
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING AND PACKAGING - ES&H Bldg & Temp Facilities	0	0	0	12,690	12,690
2	HANDLING AND PACKAGING - Modular Lab Bldg	0	0	0	15,162	15,162
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	27,852	27,852
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	27,852	27,852
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	27,852	27,852
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	27,852	27,852
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	27,852	27,852
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	27,852	27,852
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					27,852
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					27,852
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					27,852
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					27,852
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					27,852
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					27,852
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					27,852

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:33 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D
 WBS CODE 1.1.2.5.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	S U B C O N T R A C T O R						R M I &			
		M A N H O U R S		L A B O R		M A T E R I A L		O T H E R C O S T S			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

1.2 ES & H BUILDING

Hndl & PACK B-25 Containers	2	ea							473	946	946
E.S. & H. Bldg											
Hndl & PACK 55 Gallon Drums	2	ea							167	334	334
E.S. & H. Bldg											
Sales Tax	6	pct							1,280	77	77
TOTAL ES & H BUILDING										1,357	\$ 1,357

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDP (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:33 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D
 WBS CODE 1.1.2.5.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		CREW	LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS		UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	

3.3 Modular Lab Bldg

Hndl & PACK S/L Containers Modular Lab Bldg	4	ea								3,576	14,304	14,304
Sales Tax Modular Lab Bldg	6	pct								14,304	858	858
TOTAL Modular Lab Bldg											15,162	\$ 15,162

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:34 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D
 WBS CODE 1.1.2.5.4.1
 WASTE MANAGEMENT
 HANDLING AND PACKAGING

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	

3.4 Temp Facilities

Hndl & PACK Sealand Containers Temp Facilities	3	ea								3,564	10,691	10,691
Sales Tax Modular Lab Bldg	6	pct								10,692	642	642
TOTAL Temp Facilities										0	0	0
											11,333	\$ 11,333

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.4.3
DESCRIPTION: WASTE MANAGEMENT -- SHIPMENTS AND DISPOSAL
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	SHIPMENTS AND DISPOSAL -- ES&H Bldg	0	0	0	2,990	2,990
2	SHIPMENTS AND DISPOSAL -- Temp Facilities	0	0	0	41,295	41,295
3	SHIPMENTS AND DISPOSAL -- Modular Lab Bldg	0	0	0	55,060	55,060
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	99,345	99,345
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	99,345	99,345
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	99,345	99,345
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	99,345	99,345
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	99,345	99,345
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	99,345	99,345
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					99,345
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					99,345
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					99,345
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					99,345
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					99,345
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					99,345
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					99,345

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:34 PM
 FILE NAME RMIFEB94 PEE

BUILDING GROUP D
 WBS CODE 1.1.2.5.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

QUANTITY	UM	SUB CONTRACTOR						RMI &		TOTAL COST
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	

3.2 ES & H BUILDING

Ship & Dispose B-25 Containers E.S.& H. Bldg	2	ea							1,356	2,716	2,716	
Ship & Dispose 55 Gallon Drums E.S.& H. Bldg	2	ea						137	274	274	274	
TOTAL ES & H BUILDING				0					0	0	0	
										2,990	5	2,990

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:34 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D WBS CODE 1.1.2.5.4.3 WASTE MANAGEMENT SHIPMENTS AND DISPOSAL	QUANTITY	UM	SUB CONTRACTOR						RMI &		TOTAL COST
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST

3.3 MODULAR LAB BLDG

Ship & Dispose S/L Containers Modular Lab Bldg	4	ea								13,765	55,060	55,060
TOTAL MODULAR LAB BLDG				0			0			0	55,060	55,060

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 BUILDING & EQUIPMENT REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-18-94 @ 2:34 pm
 FILE NAME RMIFEB94.PEE

BUILDING GROUP D WBS CODE 1.1.2.5.4.3 WASTE MANAGEMENT SHIPMENTS AND DISPOSAL	QUANTITY	UM	SUB CONTRACTOR						RMI &			
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
			UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
			RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST

3.4 TEMPORARY FACILITIES

Ship & Dispose S/L Containers Temp Facilities	3	ea								13,765	41,295	41,295
TOTAL TEMPORARY FACILITIES				0		0		0		41,295	5	41,295

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	Sample Containers & Shipping		(See M&S portion of Staffing Task Analysis)			
2	ES&H Bldg	0	0	0	20,081	20,081
3	Guardhouse	0	0	0	12,429	12,429
4	Modular Office Bldg	0	0	0	33,864	33,864
5	Modular Lab Bldg	0	0	0	26,936	26,936
6	Temporary Facilities	0	0	0	23,250	23,250
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	116,560	116,560
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	116,560	116,560
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	116,560	116,560
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	116,560	116,560
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	116,560	116,560
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%				0
26	SUBTOTAL		0	0	116,560	116,560
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					116,560
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					116,560
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					116,560
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					116,560
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					116,560
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					116,560
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					116,560

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	ES&H Bldg	0	0	0	20,081	20,081
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	20,081	20,081
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	20,081	20,081
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	20,081	20,081
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	20,081	20,081
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	20,081	20,081
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	20,081	20,081
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					20,081
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					20,081
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					20,081
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					20,081
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					20,081
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					20,081
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					20,081

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	Guardhouse	0	0	0	12,429	12,429
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	12,429	12,429
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	12,429	12,429
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	12,429	12,429
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	12,429	12,429
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	12,429	12,429
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	12,429	12,429
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					12,429
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					12,429
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					12,429
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					12,429
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					12,429
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					12,429
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					12,429

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	Modular Office Bldg	0	0	0	33,864	33,864
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	33,864	33,864
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	33,864	33,864
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	33,864	33,864
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	33,864	33,864
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	33,864	33,864
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	33,864	33,864
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					33,864
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					33,864
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					33,864
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					33,864
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					33,864
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					33,864
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					33,864

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.2.5.6
DESCRIPTION: LABORATORY SERVICES
BUILDING GROUP "D"

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3						
4	Modular Lab Bldg	0	0	0	26,936	26,936
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	26,936	26,936
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	26,936	26,936
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	26,936	26,936
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	26,936	26,936
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	26,936	26,936
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	26,936	26,936
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					26,936
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					26,936
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					26,936
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					26,936
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					26,936
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					26,936
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					26,936

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GUIDELINES FOR CONSTRUCTION ESTIMATES

Equipment Remediation Group "D"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	0
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	0
Fumes, Dusts, Hazards	0 - 10	2	0
Material Handling Conditions (Distance, receiving)	0 - 3	1	0
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	0
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	0
Rush Schedule	0 - 5	0	0 0%

GUIDELINES FOR CONSTRUCTION ESTIMATES

Building Remediation Group "D"

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	2
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	0
Fumes, Dusts, Hazards	0 - 10	2	1
Material Handling Conditions (Distance, receiving)	0 - 3	1	0
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	0
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0 6%

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

EQUIPMENT REMEDIATION GROUP "D"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

 2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0%

 3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

 4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

 5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

 6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 0%
- TOTAL - 9%

CONSTRUCTION SUPPORT COSTS

(Indirect Costs)

BUILDING REMEDIATION GROUP "D"

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.4%

TOTAL - 26.4%

ON-SITE SOIL

1.1.3.1

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1
DESCRIPTION: ON-SITE SOIL

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	8,000	8,000
2	PATHWAY ANALYSIS		(See separate Staffing Task Analysis)			
3	CHARACTERIZATION	0	0	0	0	0
4	SOIL REMEDIATION OPERATIONS	68,276	1,377,128	959,754	0	2,336,882
5	WASTE MANAGEMENT	0	0	0	12,828,509	12,828,509
6	ENVIRONMENTAL SAFETY & HEALTH		(See separate Staffing Task Analysis)			
7	LABORATORY SERVICES	0	0	0	1,611,825	1,611,825
8	INDEPENDENT VERIFICATION	0	0	0	390,060	390,060
9	Rounding to the nearest \$100				(22)	(22)
10						
11	RMI Staffing Plan - Labor		(See separate Staffing Task Analysis)			
12	RMI Staffing Plan - Supplies		(See separate Staffing Task Analysis)			
13	SUBTOTAL DIRECTS	68,276	1,377,128	959,754	14,838,372	17,175,254
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	23,350	470,978		470,978
15	HP & SAFETY TRAINING FACTOR	7.5%	5,121	103,285		103,285
16	JOB CONDITION FACTOR	9.0%	6,145	123,941		123,941
17	SUBTOTAL		102,892	2,075,332	14,838,372	17,873,458
18	CONSTRUCTION EQUIPMENT	45.0%	3,241	65,373	868,526	933,899
19	SUBTOTAL		106,133	2,140,705	14,838,372	18,807,357
20	CONSTRUCTION SUPPORT COSTS	26.7%	28,338	571,577		571,577
21	SUBTOTAL		134,471	2,712,282	14,838,372	19,378,934
22	CRAFT SUPERVISION	15.0%	20,171	427,020		427,020
23	SUBTOTAL		154,642	3,139,302	14,838,372	19,805,954
24	LABOR FRINGES/PAYROLL TAXES	42.7%		1,340,482		1,340,482
25	SALES TAX	6.0%		109,697		109,697
26	SUBTOTAL		154,642	4,479,784	14,838,372	21,256,133
27	SUSTIER SUBCONTRACTOR OH/PROFIT	0.00%				0
28	SUBTOTAL					21,256,133
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					21,256,133
31	RMI ENGINEERING	4.00%				256,710
32	SUBTOTAL					21,512,843
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.00%				0
34	SUBTOTAL					21,512,843
35	FIELD WORK ADMINISTRATION	5.00%				333,724
36	SUBTOTAL					21,846,567
37	ALL RISK INSURANCE	0.40%				28,033
38	SUBTOTAL					21,874,600
39	PERFORMANCE & PAYMENT BOND	0.00%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					21,874,600

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.3
DESCRIPTION: CHARACTERIZATION
ON-SITE SOIL

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CHARACTERIZATION	0	0	0	0	0
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	0	0
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	7.5%	0	0	0	0
16	JOB CONDITION FACTOR	9.0%	0	0	0	0
17	SUBTOTAL		0	0	0	0
18	CONSTRUCTION EQUIPMENT	45.0%	0	0	0	0
19	SUBTOTAL		0	0	0	0
20	CONSTRUCTION SUPPORT COSTS	26.7%	0	0	0	0
21	SUBTOTAL		0	0	0	0
22	CRAFT SUPERVISION	15.0%	0	0	0	0
23	SUBTOTAL		0	0	0	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%	0	0	0	0
25	SALES TAX	6.0%	0	0	0	0
26	SUBTOTAL		0	0	0	0
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					0
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					0
31	RMI ENGINEERING	4.0%				0
32	SUBTOTAL					0
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					0
35	FIELD WORK ADMINISTRATION	5.0%				0
36	SUBTOTAL					0
37	ALL RISK INSURANCE	0.4%				0
38	SUBTOTAL					0
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					0

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.4
DESCRIPTION: SOIL REMEDIATION OPERATIONS
ON-SITE SOIL

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PREPARATIONS	695	14,015	6,628	0	20,643
2	REMEDICATION	64,066	1,292,205	562,804	0	1,855,009
3	RESTORATION	3,515	70,907	390,322	0	461,229
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	68,276	1,377,128	959,754	0	2,336,882
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	23,350	470,978		470,978
15	HP & SAFETY TRAINING FACTOR	7.5%	5,121	103,285		103,285
16	JOB CONDITION FACTOR	9.0%	6,145	123,941		123,941
17	SUBTOTAL		102,892	2,075,332	0	3,035,086
18	CONSTRUCTION EQUIPMENT	45.0%	3,241	65,373		933,899
19	SUBTOTAL		106,133	2,140,705	0	3,968,985
20	CONSTRUCTION SUPPORT COSTS	26.7%	28,338	571,577		571,577
21	SUBTOTAL		134,471	2,712,282	0	4,540,562
22	CRAFT SUPERVISION	15.0%	20,171	427,020		427,020
23	SUBTOTAL		154,642	3,139,302	0	4,967,582
24	LABOR FRINGES/PAYROLL TAXES	42.7%		1,340,482		1,340,482
25	SALES TAX	6.0%		109,697		109,697
26	SUBTOTAL		154,642	4,479,784	0	6,417,761
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					6,417,761
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					6,417,761
31	RMI ENGINEERING	4.0%				256,710
32	SUBTOTAL					6,674,471
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					6,674,471
35	FIELD WORK ADMINISTRATION	5.0%				333,724
36	SUBTOTAL					7,008,195
37	ALL RISK INSURANCE	0.4%				28,033
38	SUBTOTAL					7,036,228
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					7,036,228

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.4.1
DESCRIPTION: SOIL REMEDIATION OPERATIONS
ON-SITE SOIL - Preparations

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PREPARATIONS	695	14,015	6,628	0	20,643
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	695	14,015	6,628	0	20,643
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	238	4,793		4,793
15	HP & SAFETY TRAINING FACTOR	7.5%	52	1,051		1,051
16	JOB CONDITION FACTOR	9.0%	63	1,261		1,261
17	SUBTOTAL		1,048	21,120	6,628	0
18	CONSTRUCTION EQUIPMENT	45.0%	33	665	8,839	9,504
19	SUBTOTAL		1,081	21,785	15,467	0
20	CONSTRUCTION SUPPORT COSTS	26.7%	269	5,829		5,829
21	SUBTOTAL		1,370	27,614	15,467	0
22	CRAFT SUPERVISION	15.0%	205	4,340		4,340
23	SUBTOTAL		1,575	31,954	15,467	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		13,644		13,644
25	SALES TAX	6.0%			928	928
26	SUBTOTAL		1,575	45,598	16,395	0
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					61,993
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					61,993
31	RMI ENGINEERING	4.0%				2,480
32	SUBTOTAL					64,473
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					64,473
35	FIELD WORK ADMINISTRATION	5.0%				3,224
36	SUBTOTAL					67,697
37	ALL RISK INSURANCE	0.4%				271
38	SUBTOTAL					67,968
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					67,968

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL WBS CODE 1.1.3.1.4.1 SOIL REMEDIATIONS OPERATIONS PREPARATIONS	QUANTITY	UM	SUBCONTRACTOR								RMI & OTHER COSTS		TOTAL COST
			MAN HOURS		LABOR			MATERIAL					
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		
Erosion Control Silt Fence	559	#	0.15	84	20.17	3.03	1,691	2.00	1,118			2,809	
Temporary Security Fence	551	#	1.00	551	20.17	20.17	11,114	10.00	5,510			16,624	
Platform Scale, 10,000 lb	3	ea	17.00	51	20.17	342.89	1,029					1,029	
Platform Scale, Skids	3	ea	3.00	9	20.17	60.51	182					182	
TOTAL				695			14,015		6,628		0	\$20,643	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.4.2
DESCRIPTION: SOIL REMEDIATION OPERATIONS
ON-SITE SOIL -- Remediation

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RM & SU IS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	REMEDATION	64,066	1,292,205	562,804	0	1,855,009
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	64,066	1,292,205	562,804	0	1,855,009
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	21,910	441,934		441,934
15	HP & SAFETY TRAINING FACTOR	7.5%	4,805	96,915		96,915
16	JOB CONDITION FACTOR	9.0%	5,766	116,298		116,298
17	SUBTOTAL		96,547	1,947,352	0	2,510,156
18	CONSTRUCTION EQUIPMENT	45.0%	3,041	61,342		876,309
19	SUBTOTAL		99,588	2,008,694	0	3,386,465
20	CONSTRUCTION SUPPORT COSTS	26.7%	26,590	536,320		536,320
21	SUBTOTAL		126,178	2,545,014	0	3,922,785
22	CRAFT SUPERVISION	15.0%	18,927	400,685		400,685
23	SUBTOTAL		145,105	2,945,699	0	4,323,470
24	LABOR FRINGES/PAYROLL TAXES	42.7%		1,257,814		1,257,814
25	SALES TAX	6.0%		82,666		82,666
26	SUBTOTAL		145,105	4,203,513	0	5,663,950
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					5,663,950
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					5,663,950
31	RMI ENGINEERING	4.0%				226,558
32	SUBTOTAL					5,890,508
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					5,890,508
35	FIELD WORK ADMINISTRATION	5.0%				294,525
36	SUBTOTAL					6,185,033
37	ALL RISK INSURANCE	0.4%				24,740
38	SUBTOTAL					6,209,773
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					6,209,773

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94 PEE

ON-SITE SOIL WBS CODE 1.1.3.1.4.2 SOIL REMEDIATIONS OPERATIONS REMEDICATION	QUANTITY	UM	MAN HOURS		SUBCONTRACTOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Fire Watch	1	ls	508.00	508	20.17	10,246.36	10,246					10,246
RCA Zones	13,546	#	0.70	9,482	20.17	14.12	191,256	18.52	250,872			442,128
Excavate Process/Storm Sewers	7,680	cy	0.25	1,920	20.17	5.04	38,726					38,726
Excavate Sanitary Sewer Lines	692	cy	0.25	173	20.17	5.04	3,489					3,489
Excavate Phone Duct	257	cy	0.25	64	20.17	5.04	1,296					1,296
Excavate Water Lines	2,151	cy	0.25	538	20.17	5.04	10,846					10,846
Excavate Natural Gas Lines	339	cy	0.25	85	20.17	5.04	1,709					1,709
Excavate Argon Lines	68	cy	0.25	17	20.17	5.04	343					343
Excavate Elect Ductbank	455	cy	0.25	114	20.17	5.04	2,294					2,294
Excavate New Storm Sewer	1,997	cy	0.25	499	20.17	5.04	10,070					10,070
Excavate Underslab Drains	220	cy	0.25	55	20.17	5.04	1,109					1,109
Backfill Process/Storm Sewers	8,103	cy	0.50	4,052	20.17	10.09	81,719					81,719
Backfill Sanitary Sewer Lines	762	cy	0.50	381	20.17	10.09	7,685					7,685
Backfill Phone Duct	310	cy	0.50	155	20.17	10.09	3,126					3,126
Backfill Water Lines	2,232	cy	0.50	1,116	20.17	10.09	22,510					22,510
Backfill Natural Gas Lines	365	cy	0.50	183	20.17	10.09	3,681					3,681
Backfill Argon Lines	73	cy	0.50	37	20.17	10.09	736					736
Backfill Elect Ductbank	612	cy	0.50	306	20.17	10.09	6,172					6,172
Backfill New Storm Sewer	1,997	cy	0.50	999	20.17	10.09	20,140					20,140
Backfill Underslab Drains	233	cy	0.50	117	20.17	10.09	2,350					2,350
Remove 4" Sanitary Sewer Line	232	#	0.10	23	20.17	2.02	468					468
Remove 2" Natural Gas Line	230	#	0.10	23	20.17	2.02	464					464
Remove 3" Natural Gas Line	275	#	0.10	28	20.17	2.02	555					555
Remove 3" Argon Lines	97	#	0.10	10	20.17	2.02	196					196
Remove 6" Sewer Line	403	#	0.11	44	20.17	2.22	894					894
Remove 6" Sanitary Sewer Line	169	#	0.12	20	20.17	2.42	409					409
Remove 6" Water Lines	492	#	0.22	108	20.17	4.44	2,183					2,183
Remove Under-Slab Drains	3,066	#	0.20	613	20.17	4.03	12,368					12,368
Remove 8" Sewer Line	487	#	0.12	58	20.17	2.42	1,179					1,179
Remove 10" Sewer Line	17	#	0.14	2	20.17	2.82	48					48
Remove 8" Sanitary Sewer Line	197	#	0.15	30	20.17	3.03	596					596
Remove 8" Water Lines	292	#	0.25	73	20.17	5.04	1,472					1,472
Remove 12" Sewer Line	17	#	0.15	3	20.17	3.03	51					51
Remove 12" Water Lines	148	#	0.30	44	20.17	6.05	896					896
Remove 18" Sewer Line	826	#	0.18	149	20.17	3.63	2,999					2,999
Remove 30" Sewer Line	424	#	0.40	170	20.17	8.07	3,421					3,421
Remove Process Sewer Manholes	10	ea	30.00	300	20.17	605.10	6,051					6,051

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL & DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL WBS CODE 1.1.3.1.4.2 SOIL REMEDIATIONS OPERATIONS REMEDICATION	QUANTITY	UM	SUBCONTRACTOR					RMI &		TOTAL COST	
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		UNIT COST
Remove Sanitary Sewer Manholes	5	ea	12.00	60	20.17	242.04	1,210				1,210
Telephone Duct Removal	19	cy	8.00	152	20.17	161.36	3,066				3,066
Remove Monitoring Station	1	ea	17.00	17	20.17	342.89	343				343
Load B-25 Containers Box capacity is 6000#	6,533	ea	0.33	2,156	20.17	8.66	43,484				43,484
Load Sealand Containers	33	ea	7.00	231	20.17	141.19	4,659				4,659
Remove Underslab Conduit/Wire	2,746	lf	0.20	549	20.17	4.03	11,077				11,077
Remove Ductbank Conduit/Wire	6,017	lf	0.10	602	20.17	2.02	12,136				12,136
Remove Conduit/Wire to Monitoring Station	424	lf	0.10	42	20.17	2.02	855				855
Remove Ductbank Concrete	114	cy	6.00	684	20.17	121.02	13,796				13,796
Remove Pond Sludge from Drums	457	ea	1.00	457	20.17	20.17	9,218				9,218
Remove Cement/Bricks from Drum Existing waste stored on site, remove from 55 gal drums & repackage into B-25 boxes	131	ea	2.00	262	20.17	40.34	5,285				5,285
Remove Fence Incl Posts/Gates	2,119	lf	0.15	318	20.17	3.03	6,411				6,411
Remove Asphalt Paving	932	cy	0.81	755	20.17	16.34	15,227	4.05	3,775		19,001
Remove Contaminated Concrete	453	cy	2.50	1,133	20.17	50.43	22,843	2.00	906		23,749
Remove Clean Concrete	3,215	cy	2.50	8,038	20.17	50.43	162,116	2.00	6,430		168,546
Concrete Size Reduction	3,215	cy	3.00	9,645	20.17	60.51	194,540	2.00	6,430		200,970
Concrete Used for Site Fill	3,215	cy	0.50	1,608	20.17	10.09	32,423				32,423
Separate Reinf Steel fm Conc	119	ton	20.00	2,380	20.17	403.40	48,005				48,005
Separate Reinf Steel Mesh	20	ton	30.00	600	20.17	605.10	12,102				12,102
Remove Embedded Steel	21	ton	12.00	252	20.17	242.04	5,083				5,083
Remove 9" of Soil from Site	8,644	cy	0.25	2,161	20.17	5.04	43,587				43,587
Sheet Piling for Outfall Line drive and pull	229	sf	15.00	3,435	20.17	302.55	69,284	755.00	172,895		242,179
Shoring for Outfall Line Excav	16,801	sf	0.10	1,680	20.17	2.02	33,888	1.50	25,202		59,089
Shoring for Storm Sewer Excav	29,066	sf	0.10	2,909	20.17	2.02	58,666	1.50	43,629		102,295
Bedding Mat for Outfall Line	17	cy	0.25	4	20.17	5.04	86	10.00	170		256
Bedding Mat for Storm Sewer	59	cy	0.25	15	20.17	5.04	298	10.00	590		888

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL	SUBCONTRACTOR								RMI &		
Remove Hydrants & PI Valves	5	ea	8.00	40	20.17	161.36	807			807	
New outfall line manhole	1	ea	42.00	42	20.17	847.14	847	1,500.00	1,500	2,347	
Precast Concrete Catch Basin	7	ea	20.00	140	20.17	403.40	2,824	1,000.00	7,000	9,824	
Precast Concrete Manhole	5	ea	40.00	200	20.17	806.80	4,034	1,200.00	6,000	10,034	
New 12" outfall line	424	lf	0.30	127	20.17	6.05	2,566	8.00	3,392	5,958	
New Storm Sewer Line	1,017	lf	0.30	305	20.17	6.05	6,154	8.00	8,136	14,290	
Conc Headwalls for Outfall	3	cy	14.00	42	20.17	282.38	847	150.00	400	1,297	
New perimeter fence & gates	2,119	lf	0.25	530	20.17	5.04	10,685	12.00	25,428	36,113	
TOTAL				64,066			1,292,205		562,804	0	\$1,855,009

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.4.3
DESCRIPTION: SOIL REMEDIATION OPERATIONS
ON-SITE SOIL - Restoration

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	RESTORATION	3,515	70,907	390,322	0	461,229
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	3,515	70,907	390,322	0	461,229
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,202	24,250		24,250
15	HP & SAFETY TRAINING FACTOR	7.5%	264	5,318		5,318
16	JOB CONDITION FACTOR	9.0%	316	6,382		6,382
17	SUBTOTAL		5,297	106,857	0	497,179
18	CONSTRUCTION EQUIPMENT	45.0%	167	3,366		48,086
19	SUBTOTAL		5,464	110,223	0	545,265
20	CONSTRUCTION SUPPORT COSTS	26.7%	1,459	29,428		29,428
21	SUBTOTAL		6,923	139,651	0	574,693
22	CRAFT SUPERVISION	15.0%	1,039	21,996		21,996
23	SUBTOTAL		7,962	161,647	0	596,689
24	LABOR FRINGES/PAYROLL TAXES	42.7%		69,023		69,023
25	SALES TAX	6.0%		26,103		26,103
26	SUBTOTAL		7,962	230,670	0	691,815
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					691,815
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					691,815
31	RMI ENGINEERING	4.0%				27,673
32	SUBTOTAL					719,488
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					719,488
35	FIELD WORK ADMINISTRATION	5.0%				35,974
36	SUBTOTAL					755,462
37	ALL RISK INSURANCE	0.4%				3,022
38	SUBTOTAL					758,484
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					758,484

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 8 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL

WBS CODE 1.1.3.1.4.3

SOIL REMEDIATIONS OPERATIONS
 RESTORATION

SUBCONTRACTOR

RMI &
 OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Import Clean Backfill	5,831	cy	0.10	583	20.17	2.02	11,761	12.00	69,972			81,733
Bkfl Verif. by Borrow Pit Owne	85	smpl						2,649.00	225,165			225,165
Import Topsoil, Place & Spread	1,666	cy	0.08	133	20.17	1.61	2,688	15.00	24,990			27,678
Seed & Fertilize	36,917	sy	0.05	1,846	20.17	1.01	37,231	0.18	6,645			43,876
Bushes & Trees (Allowance)	1,271	ea	0.75	953	20.17	15.13	19,227	50.00	63,550			82,777
TOTAL				3,515			70,907		390,322		0	\$461,229

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.5
DESCRIPTION: WASTE MANAGEMENT
ON-SITE SOIL

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING & PACKAGING	0	0	0	3,427,760	3,427,760
2	STAGING & STORAGE		(See separate Staffing Task Analysis)			
3	SHIPMENTS & DISPOSAL	0	0	0	9,400,749	9,400,749
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	12,828,509	12,828,509
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	12,828,509	12,828,509
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	12,828,509	12,828,509
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	12,828,509	12,828,509
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	12,828,509	12,828,509
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	12,828,509	12,828,509
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					12,828,509
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					12,828,509
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					12,828,509
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					12,828,509
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					12,828,509
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					12,828,509
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					12,828,509

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.5.1
DESCRIPTION: WASTE MANAGEMENT
ON-SITE SOIL - Handling & Packaging

11-FEB-94

#	DESCRIPTION	MGRS	FIELD LABOR		RMI & SUBS	TAL C ST
			LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING & PACKAGING	0	0	0	3,427,760	3,427,760
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	3,427,760	3,427,760
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	3,427,760	3,427,760
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	3,427,760	3,427,760
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	3,427,760	3,427,760
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	3,427,760	3,427,760
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	3,427,760	3,427,760
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%		0		0
28	SUBTOTAL					3,427,760
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					3,427,760
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					3,427,760
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					3,427,760
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					3,427,760
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					3,427,760
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					3,427,760

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL WBS CODE 1.1.3.1.5.1 WASTE MANAGEMENT HANDLING AND PACKAGING	QUANTITY	UM	SUBCONTRACTOR						RMI & OTHER COSTS		TOTAL COST
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST			
Hndl & Pack B-25 Containers Boxes moved on site by RMI	6,588	ea							473	3,116,124	3,116,124
Hndl & Pack SeaLand Containers Boxes moved on site by RMI	33	ea							3,564	117,612	117,612
Sales Tax	6%	pct							3,233,736	194,024	194,024
TOTAL				0			0		0	3,427,760	\$3,427,760

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.5.3
DESCRIPTION: WASTE MANAGEMENT
ON-SITE SOIL -- Shipments & Disposal

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	SHIPMENTS & DISPOSAL	0	0	0	9,400,749	9,400,749
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	9,400,749	9,400,749
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	9,400,749	9,400,749
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	9,400,749	9,400,749
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	9,400,749	9,400,749
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	9,400,749	9,400,749
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	9,400,749	9,400,749
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					9,400,749
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					9,400,749
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					9,400,749
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					9,400,749
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					9,400,749
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					9,400,749
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					9,400,749

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94 PEE

ON-SITE SOIL WBS CODE 1.1.3.1.5.3 WASTE MANAGEMENT SHIPMENTS AND DISPOSAL	QUANTITY	UM	SUBCONTRACTOR						RMI & OTHER COSTS		TOTAL COST	
			MAN HOURS		LABOR			MATERIAL		UNIT COST		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			
Ship/Dispose B-25 Containers	6,588	ea								1,352	8,946,504	8,946,504
Ship/Dispose S/L Containers	33	ea								13,765	454,245	454,245
TOTAL				0				0		0	9,400,749	\$9,400,749

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.7
DESCRIPTION: LABORATORY SERVICES
ON-SITE SOIL

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	Sample Containers & Shipping		(See M&S portions of Staffing Task Analysis)			
2	Initial On-Site Soil Characterization Lab Service	0	0	0	1,262,775	1,262,775
3	Final On-Site Soil Characterization Lab Service	0	0	0	349,050	349,050
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,611,825	1,611,825
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,611,825	1,611,825
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,611,825	1,611,825
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,611,825	1,611,825
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,611,825	1,611,825
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	1,611,825	1,611,825
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					1,611,825
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,611,825
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,611,825
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,611,825
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					1,611,825
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,611,825
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,611,825

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL WBS CODE 1.1.3.1.7 LABORATORY SERVICES	QUANTITY	UM	SUBCONTRACTOR						RMI & OTHER COSTS		TOTAL COST		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST			
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST				TOTAL COST	
Sample Containers & Shipping for On-Site Soils	6,356	ea											
Lab Service Analysis Fee Initial On-Site Soil Characterization	8,475	ea							149	1,262,775		1,262,775	
Lab Service Analysis Fee Final On-Site Soil Characterization	4,475	ea							78	349,050		349,050	
TOTAL				0				0		0		1,611,825	1,611,825

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.1.8
DESCRIPTION: INDEPENDENT VERIFICATION
ON-SITE SOIL

11-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	INDEPENDENT VERIFICATION	0	0	0	390,060	390,060
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	390,060	390,060
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	390,060	390,060
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	390,060	390,060
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	390,060	390,060
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	390,060	390,060
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	390,060	390,060
27	SUBTIER SUBCONTRACTOR OH/PROFIT	0.0%				0
28	SUBTOTAL					390,060
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					390,060
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					390,060
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					390,060
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					390,060
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					390,060
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					390,060

RMI ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-11-94
 FILE NAME RMIFEB94.PEE

ON-SITE SOIL
 WBS CODE 1.1.3.1.8
 INDEPENDENT VERIFICATION

SUBCONTRACTOR

RMI &
 OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Independent Soil Verification	788	smpl								495	390,060	390,060
TOTAL				0			0		0		390,060	390,060

GUIDELINES FOR CONSTRUCTION ESTIMATES

on-site Soil

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	1
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	3
Fumes, Dusts, Hazards	0 - 10	2	1
Material Handling Conditions (Distance, receiving)	0 - 3	1	1
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	0
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0
			TOTAL - <u>9%</u>

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

ON-site Soil

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0%

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0%

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0%

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.7%

TOTAL - 26.7%

OFF-SITE SOIL

1.1.3.2

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2
DESCRIPTION: OFF-SITE SOIL

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	8,000	8,000
2	PATHWAYS ANALYSIS		(See separate Staffing Task Analysis)			
3	CHARACTERIZATION		(See separate Staffing Task Analysis)			
4	SOIL REMEDIATION OPERATIONS	5,004	100,907	156,098	0	257,005
5	WASTE MANAGEMENT	0	0	0	1,931,249	1,931,249
6	ENVIRONMENTAL SAFETY AND HEALTH		(See separate Staffing Task Analysis)			
7	LABORATORY SERVICES	0	0	0	612,740	612,740
8	INDEPENDENT VERIFICATION	0	0	0	331,155	331,155
9	Rounding to the nearest \$100				20	20
10						
11	RMI Staffing Plan - Labor		(See separate Staffing Task Analysis)			
12	RMI Staffing Plan - Supplies		(See separate Staffing Task Analysis)			
13	SUBTOTAL DIRECTS	5,004	100,907	156,098	2,883,164	3,140,169
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,711	34,510		34,510
15	HP & SAFETY TRAINING FACTOR	7.5%	375	7,568		7,568
16	JOB CONDITION FACTOR	9.0%	450	9,082		9,082
17	SUBTOTAL		7,540	152,067	156,098	3,191,329
18	CONSTRUCTION EQUIPMENT	45.0%	237	4,790	63,640	68,430
19	SUBTOTAL		7,777	156,857	219,738	3,259,759
20	CONSTRUCTION SUPPORT COSTS	26.7%	2,076	41,873		41,873
21	SUBTOTAL		9,853	198,730	219,738	3,301,632
22	CRAFT SUPERVISION	15.0%	1,478	31,289		31,289
23	SUBTOTAL		11,331	230,019	219,738	3,332,921
24	LABOR FRINGES/PAYROLL TAXES	42.7%		98,218		98,218
25	SALES TAX	6.0%			13,184	13,184
26	SUBTOTAL		11,331	328,237	232,922	3,444,323
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					3,444,323
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					3,444,323
31	RMI ENGINEERING	4.0%				22,446
32	SUBTOTAL					3,466,769
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					3,466,769
35	FIELD WORK ADMINISTRATION	5.0%				29,180
36	SUBTOTAL					3,495,949
37	ALL RISK INSURANCE	0.4%				2,451
38	SUBTOTAL					3,498,400
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					3,498,400

fn=1132a.wk3

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.4
DESCRIPTION: SOIL REMEDIATION OPERATIONS
OFF-SITE SOIL

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PREPARATIONS	443	8,926	12,900	0	21,826
2	REMEDICATION	3,778	76,199	48,982	0	125,181
3	RESTORATION	783	15,782	94,216	0	109,998
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	5,004	100,907	156,098	0	257,005
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,711	34,510		34,510
15	HP & SAFETY TRAINING FACTOR	7.5%	375	7,568		7,568
16	JOB CONDITION FACTOR	9.0%	450	9,082		9,082
17	SUBTOTAL		7,540	152,067	0	308,165
18	CONSTRUCTION EQUIPMENT	45.0%	237	4,790		68,430
19	SUBTOTAL		7,777	156,857	0	376,595
20	CONSTRUCTION SUPPORT COSTS	26.7%	2,076	41,873		41,873
21	SUBTOTAL		9,853	198,730	0	418,468
22	CRAFT SUPERVISION	15.0%	1,478	31,289		31,289
23	SUBTOTAL		11,331	230,019	0	449,757
24	LABOR FRINGES/PAYROLL TAXES	42.7%		98,218		98,218
25	SALES TAX	6.0%		13,184		13,184
26	SUBTOTAL		11,331	328,237	0	561,159
27	SUBTIER SUBCONTRACTOR CH/FEE	0.00%				0
28	SUBTOTAL					561,159
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					561,159
31	RMI ENGINEERING	4.0%				22,446
32	SUBTOTAL					583,605
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					583,605
35	FIELD WORK ADMINISTRATION	5.0%				29,180
36	SUBTOTAL					612,785
37	ALL RISK INSURANCE	0.4%				2,451
38	SUBTOTAL					615,236
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					615,236

fn=1132a.wk3

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.4.1
DESCRIPTION: SOIL REMEDIATION OPERATIONS
OFF-SITE SOIL - Preparations

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PREPARATIONS	443	8,926	12,900	0	21,826
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	443	8,926	12,900	0	21,826
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	152	3,053		3,053
15	HP & SAFETY TRAINING FACTOR	7.5%	33	669		669
16	JOB CONDITION FACTOR	9.0%	40	803		803
17	SUBTOTAL		668	13,451	12,900	0
18	CONSTRUCTION EQUIPMENT	45.0%	21	424	5,629	6,053
19	SUBTOTAL		689	13,875	18,529	0
20	CONSTRUCTION SUPPORT COSTS	26.7%	184	3,708		3,708
21	SUBTOTAL		873	17,583	18,529	0
22	CRAFT SUPERVISION	15.0%	131	2,771		2,771
23	SUBTOTAL		1,004	20,354	18,529	0
24	LABOR FRINGES/PAYROLL TAXES	42.7%		8,691		8,691
25	SALES TAX	6.0%		1,112		1,112
26	SUBTOTAL		1,004	29,045	19,641	0
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					48,686
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					48,686
31	RMI ENGINEERING	4.0%				1,947
32	SUBTOTAL					50,633
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					50,633
35	FIELD WORK ADMINISTRATION	5.0%				2,532
36	SUBTOTAL					53,165
37	ALL RISK INSURANCE	0.4%				213
38	SUBTOTAL					53,378
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					53,378

fn = 1132s.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:35 pm
 FILE NAME RMIFEB94.PEE

OFF-SITE SOIL		SUB CONTRACTOR						R M I &		
WBS CODE 1.1.3.2.4.1		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL
SOIL REMEDIATION OPERATIONS	QUANTITY UM	UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
PREPARATIONS										
Erosion control fence	1,200 lf	.15	180	20.17	3.03	3,631	2.00	2,400		6,031
Temporary Security Fence	1,050 lf	.25	263	20.17	5.04	5,295	10.00	10,500		15,795
TOTAL			443			8,926		12,900	0	5 21,826

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.4.2
DESCRIPTION: SOIL REMEDIATION OPERATIONS
OFF-SITE SOIL - Remediation

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	REMEDATION	3,778	76,199	48,982	0	125,181
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	3,778	76,199	48,982	0	125,181
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,292	26,060		26,060
15	HP & SAFETY TRAINING FACTOR	7.5%	283	5,715		5,715
16	JOB CONDITION FACTOR	9.0%	340	6,858		6,858
17	SUBTOTAL		5,693	114,832	0	163,814
18	CONSTRUCTION EQUIPMENT	45.0%	179	3,617		51,674
19	SUBTOTAL		5,872	118,449	0	215,488
20	CONSTRUCTION SUPPORT COSTS	26.7%	1,568	31,627		31,627
21	SUBTOTAL		7,440	150,076	0	247,115
22	CRAFT SUPERVISION	15.0%	1,116	23,626		23,626
23	SUBTOTAL		8,556	173,702	0	270,741
24	LABOR FRINGES/PAYROLL TAXES	42.7%		74,171		74,171
25	SALES TAX	6.0%		5,822		5,822
26	SUBTOTAL		8,556	247,873	0	350,734
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					350,734
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					350,734
31	RMI ENGINEERING	4.0%				14,029
32	SUBTOTAL					364,763
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					364,763
35	FIELD WORK ADMINISTRATION	5.0%				18,238
36	SUBTOTAL					383,001
37	ALL RISK INSURANCE	0.4%				1,532
38	SUBTOTAL					384,533
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					384,533

fn=1132a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:35 PM
 FILE NAME RMIFEB94.PEE

OFF-SITE SOIL WBS CODE 1.1.3.2.4.2 SOIL REMEDIATION OPERATIONS REMEDICATION	QUANTITY	UM	SUB CONTRACTOR						RMI & OTHER COSTS		
			MAN HOURS		LABOR		MATERIAL		UNIT COST	TOTAL COST	TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST	
Fire Watch	1	ls	50.00	50	20.17	1,008.50	1,009			1,009	
Pumping	1	ls	200.00	200	20.17	4,034.00	4,034			4,034	
RCA Zones	2,580	lf	.70	1,806	20.17	14.12	36,427	18.52	47,782	84,209	
Load B-25 Containers	45	ea	.33	15	20.17	6.66	300			300	
Load Sea Land Containers	10	ea	7.00	70	20.17	141.19	1,412			1,412	
Load B-25 Containers	788	ea	.33	260	20.17	6.66	5,245			5,245	
Load B-25 Containers	83	ea	.33	27	20.17	6.66	552			552	
Load Sea Land Containers	3	ea	7.00	21	20.17	141.19	424			424	
Remove Trees	76	ea	6.00	456	20.17	121.02	9,198			9,198	
Remove Stumps	76	ea	4.00	304	20.17	80.68	6,132			6,132	
Remove Brush	1.2	acre	40.00	48	20.17	806.80	968			968	
Remove Wetland Grasses	.2	acre	40.00	8	20.17	806.80	161			161	
Erosion control dike	100	cy	.75	75	20.17	15.13	1,513	12.00	1,200	2,713	
Remove 9" of Soil from Site	1,750	cy	.25	438	20.17	5.04	8,824			8,824	
TOTAL				3,778			76,199		48,982	0 5 125,181	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.4.3
DESCRIPTION: SOIL REMEDIATION OPERATIONS
OFF-SITE SOIL - Restoration

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	RESTORATION	783	15,782	94,216	0	109,998
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	783	15,782	94,216	0	109,998
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	268	5,397		5,397
15	HP & SAFETY TRAINING FACTOR	7.5%	59	1,184		1,184
16	JOB CONDITION FACTOR	9.0%	70	1,420		1,420
17	SUBTOTAL		1,180	23,783	0	117,999
18	CONSTRUCTION EQUIPMENT	45.0%	37	749		9,953
19	SUBTOTAL		1,217	24,532	0	128,701
20	CONSTRUCTION SUPPORT COSTS	26.7%	325	6,552		6,552
21	SUBTOTAL		1,542	31,084	0	135,253
22	CRAFT SUPERVISION	15.0%	231	4,888		4,888
23	SUBTOTAL		1,773	35,972	0	140,141
24	LABOR FRINGES/PAYROLL TAXES	42.7%		15,360		15,360
25	SALES TAX	6.0%		6,250		6,250
26	SUBTOTAL		1,773	51,332	0	161,751
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					161,751
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					161,751
31	RMI ENGINEERING	4.0%				6,470
32	SUBTOTAL					168,221
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					168,221
35	FIELD WORK ADMINISTRATION	5.0%				8,411
36	SUBTOTAL					176,632
37	ALL RISK INSURANCE	0.4%				707
38	SUBTOTAL					177,339
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					177,339

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:35 pm
 FILE NAME RMIFEB94.PEE

OFF-SITE SOIL WBS CODE 1.1.3.2.4.3 SOIL REMEDIATION OPERATIONS RESTORATION	QUANTITY	UM	SUB CONTRACTOR						RMI &			
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST
7" Clean Backfill	1,478	cy	.10	148	20.17	2.02	2,981	12.00	17,736			20,717
Bkfl Verif. by Borrow Pit Ownr	20	smpl						2,649.00	52,980			52,980
2" Topsoil	408	cy	.08	33	20.17	1.61	658	15.00	6,120			6,778
Seeding & Fertilizer, 1.4 acre	7,000	sy	.05	350	20.17	1.01	7,060	.18	1,260			8,320
Slope Erosion Control	34,000	sf		102	20.17	.06	2,057	.18	6,120			8,177
Bushes & Trees (Allowance)	200	ea	.75	150	20.17	15.13	3,026	50.00	10,000			13,026
TOTAL				783			15,782		94,216		0	\$ 109,998

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.5
DESCRIPTION: WASTE MANAGEMENT
OFF-SITE SOIL

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING & PACKAGING	0	0	0	508,376	508,376
2	STAGING & STORAGE	0	0	0	0	0
3	SHIPMENTS & DISPOSAL	0	0	0	1,422,873	1,422,873
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,931,249	1,931,249
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,931,249	1,931,249
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,931,249	1,931,249
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,931,249	1,931,249
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,931,249	1,931,249
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	1,931,249	1,931,249
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,931,249
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,931,249
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,931,249
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,931,249
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					1,931,249
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,931,249
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,931,249

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.5.1
DESCRIPTION: WASTE MANAGEMENT
OFF-SITE SOIL - Handling & Packaging

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING & PACKAGING	0	0	0	508,376	508,376
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	508,376	508,376
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	508,376	508,376
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	508,376	508,376
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	508,376	508,376
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	508,376	508,376
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	508,376	508,376
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					508,376
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					508,376
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					508,376
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					508,376
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					508,376
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					508,376
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					508,376

fn=1132a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:36 pm
 FILE NAME RMIFEB94.PEE

OFF-SITE SOIL		SUB CONTRACTOR						R M I &			
WBS CODE 1.1.3.2.5.1		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
WASTE MANAGEMENT	QUANTITY UM	UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
HANDLING AND PACKAGING		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST
Hndl & Pack B-25 Containers Boxes moved on site by RMI	45 ea								473	21,285	21,285
Hndl & Pack B-25 Containers	788 ea								473	372,724	372,724
Hndl & Pack B-25 Containers	83 ea								473	39,259	39,259
Hndl & Pack Sea/Land Container Boxes moved on site by RMI	10 ea								3,564	35,640	35,640
Hndl & Pack Sea/Land Container	3 ea								3,564	10,692	10,692
Sales Tax	6 pct								479,600	28,776	28,776
TOTAL			0		0		0			508,376	\$ 508,376

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.5.3
DESCRIPTION: WASTE MANAGEMENT
OFF-SITE SOIL - Shipments & Disposal

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	SHIPMENTS & DISPOSAL	0	0	0	1,422,873	1,422,873
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,422,873	1,422,873
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,422,873	1,422,873
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,422,873	1,422,873
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,422,873	1,422,873
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,422,873	1,422,873
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	1,422,873	1,422,873
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,422,873
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,422,873
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,422,873
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,422,873
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					1,422,873
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,422,873
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,422,873

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.7
DESCRIPTION: LABORATORY SERVICES
OFF-SITE SOIL

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	Sample Containers & Shipping		(See M&S portion of Staffing Task Analysis)			
2	Initial Off-Site Soils Lab Services	0	0	0	372,500	372,500
3	Final Off-Site Soils Lab Services	0	0	0	240,240	240,240
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	612,740	612,740
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	612,740	612,740
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	612,740	612,740
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	612,740	612,740
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	612,740	612,740
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%				0
26	SUBTOTAL	0	0	0	612,740	612,740
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					612,740
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					612,740
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					612,740
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					612,740
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					612,740
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					612,740
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					612,740

fn=1132a.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:36 pm
 FILE NAME RMIFEB94.FEE

OFF-SITE SOIL WBS CODE 1.1.3.2.7. LABORATORY SERVICES	QUANTITY	UM	SUBCONTRACTOR						RMI &		TOTAL COST	
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST		TOTAL COST
Sample Containers & Shipping Off-Site Soils	3,900	ea										
Lab Service Analysis Fee for Initial Off-Site Soil Characterization	2,500	ea							149	372,500	372,500	
Lab Service Analysis Fee for Final Off-Site Soil Characterization	3,080	ea							78	240,240	240,240	
TOTAL										612,740	\$ 612,740	

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.3.2.8
DESCRIPTION: INDEPENDENT VERIFICATION
OFF-SITE SOIL

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	INDEPENDENT VERIFICATION	0	0	0	331,155	331,155
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	331,155	331,155
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL				331,155	331,155
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL				331,155	331,155
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL				331,155	331,155
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL				331,155	331,155
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL				331,155	331,155
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					331,155
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					331,155
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					331,155
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					331,155
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					331,155
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					331,155
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					331,155

fn = 1132x.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 SOILS REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:36 pm
 FILE NAME RMIFEB94.PEE

OFF-SITE SOIL
 WBS CODE 1.1.3.2.8.
 INDEPENDENT VERIFICATION

QUANTITY	UM	SUB CONTRACTOR								R M I		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS				
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST			
Independent Soil Verification	669	smp1								495	331,155	331,155
TOTAL			0		0		0			331,155	\$	331,155

GUIDELINES FOR CONSTRUCTION ESTIMATES

OFF-SITE SOIL

Job Condition Factors - (JCF) A correction factor is applied to estimated labor costs due to site working conditions. Listed below are examples of JCF's that may be used with the estimate detail items. Minimum, Maximum, and Typical percentages are provided as aids for assigning values to the JCF. The estimator, however, must evaluate whether the dollar amount derived from that % is appropriate for that JCF and revise the % accordingly. The estimator should not feel restricted by the % shown as typical. The JCF are also generally listed in the Basis of the estimate with their average assigned values.

<u>JOB CONDITIONS FACTORS (SITE)</u>	<u>MIN-MAX % RANGE</u>	<u>TYPICAL</u>	<u>ACTUAL</u>
Height/Below Grade (Ladders, scaffolding, ditches)	0 - 4	2	1
Weather (Rain, mud, ice, cold, heat, humidity)	0 - 5	2	3
Fumes, Dusts, Hazards	0 - 10	2	1
Material Handling Conditions (Distance, receiving)	0 - 3	1	1
Material Storage (Availability of warehouse storage)	0 - 3	0	0
Support Facilities - Shop, Warehouse (Availability, capability)	0 - 3	0	0
Tight Working Area (Cramped shaft, crawl space)	0 - 2	0	0
Congestion - Job (Equipment, piping, buildings proximity)	0 - 3	2	0
Qualification of Welders	0 - 2	0	0
Interference w/Other Crafts	0 - 3	1	0
Abnormal Cleanup Requirements	0 - 5	0	0
Testing & Inspection Requirements (Stringent)	0 - 5	2	3
Rush Schedule	0 - 5	0	0
			TOTAL - <u>9%</u>

CONSTRUCTION SUPPORT COSTS
(Indirect Costs)

OFF-Site Soil.

1. Small Tools - Small tools and equipment costing less than \$500 and costs of repair and sharpening tools.

% - 0 - 3% of direct labor Actual - 3%

2. Scaffolding - Includes cost of purchasing and erection of scaffolding, scaffolding planks or rental of scaffolding.

% - 0 - 5% of direct labor Actual - 0

3. Cleanup - Construction area cleanup including office janitorial service that is not chargeable to other direct cost codes. Can include snow and ice removal when required for continuation of construction.

% - 0 - 6% of direct labor Actual - 6%

4. Maintaining Production - Unusual safety protection for nearby production personnel; temporary utilities, or piping runs while making tie-ins.

% - 0 - 4% of direct labor Actual - 0

5. Field Supervision - Project, Area & Craft Superintendents, Planners, Accountants, Payroll, Clerks, wages and living allowances.

% - 0 - 30% of direct labor Actual - 0

6. Protective Clothing Allowance - Includes half-masks, respirators, Level C/D coveralls, boots, gloves, cartridges.

% - 0 - 30% of direct labor Actual - 17.7%

TOTAL - 26.7%

CORRECTIVE ACTION MANAGEMENT UNIT

(CAMU)

1.1.4.1

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1
DESCRIPTION: CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	8,000	8,000
2	CHARACTERIZATION	0	0	0	60,000	60,000
3	GROUNDWATER REMEDIATION OPERATIONS	6,087	122,775	177,275	2,389,000	2,689,050
4	WASTE MANAGEMENT	0	0	0	1,341,334	1,341,334
5	ENVIRONMENTAL SAFETY & HEALTH	0	0	0	160,000	160,000
6	LABORATORY SERVICES	0	0	0	208,221	208,221
7	INDEPENDENT VERIFICATION	0	0	0	8,910	8,910
8	Rounding to the nearest \$100				8	8
9						
10						
11	RMI Staffing Plan - Labor				(See separate Staffing Task Analysis)	
12	RMI Staffing Plan - Supplies				(See separate Staffing Task Analysis)	
13	SUBTOTAL DIRECTS	6,087	122,775	177,275	4,175,473	4,475,523
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	2,082	41,989		41,989
15	HP & SAFETY TRAINING FACTOR	7.5%	457	9,208		9,208
16	JOB CONDITION FACTOR	9.0%	548	11,050		11,050
17	SUBTOTAL		9,174	185,022	4,175,473	4,537,770
18	CONSTRUCTION EQUIPMENT	45.0%	289	5,828	77,432	83,260
19	SUBTOTAL		9,463	190,850	4,175,473	4,621,030
20	CONSTRUCTION SUPPORT COSTS	15.0%	1,419	28,621		28,621
21	SUBTOTAL		10,882	219,471	4,175,473	4,649,651
22	CRAFT SUPERVISION	15.0%	1,632	34,549		34,549
23	SUBTOTAL		12,514	254,020	4,175,473	4,684,200
24	LABOR FRINGES/PAYROLL TAXES	42.7%		108,467		108,467
25	SALES TAX	6.0%		15,282		15,282
26	SUBTOTAL		12,514	362,487	4,175,473	4,807,949
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					4,807,949
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					4,807,949
31	RMI ENGINEERING	4.0%				25,299
32	SUBTOTAL					4,833,248
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					4,833,248
35	FIELD WORK ADMINISTRATION	5.0%				32,889
36	SUBTOTAL					4,866,137
37	ALL RISK INSURANCE	0.4%				2,763
38	SUBTOTAL					4,868,900
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					4,868,900

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.2
DESCRIPTION: CHARACTERIZATION
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CHARACTERIZATION – Subcontractor	0	0	0	60,000	60,000
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	60,000	60,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0	0
17	SUBTOTAL	0	0	0	60,000	60,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL	0	0	0	60,000	60,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0	0
21	SUBTOTAL	0	0	0	60,000	60,000
22	CRAFT SUPERVISION	0.0%	0	0	0	0
23	SUBTOTAL	0	0	0	60,000	60,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0	0
25	SALES TAX	0.0%	0	0	0	0
26	SUBTOTAL	0	0	0	60,000	60,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%	0	0	0	0
28	SUBTOTAL					60,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%	0	0	0	0
30	SUBTOTAL					60,000
31	RMI ENGINEERING	0.0%	0	0	0	0
32	SUBTOTAL					60,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%	0	0	0	0
34	SUBTOTAL					60,000
35	FIELD WORK ADMINISTRATION	0.0%	0	0	0	0
35	SUBTOTAL					60,000
37	ALL RISK INSURANCE	0.0%	0	0	0	0
38	SUBTOTAL					60,000
39	PERFORMANCE & PAYMENT BOND	0.0%	0	0	0	0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					60,000

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:37 PM
 FILE NAME RMIFEB94.PES

CORRECTIVE ACTION MGMT UNIT GROUNDWAT

WBS CODE 1.1.4.1.2.

CHARACTERIZATION

.01

Characterization
 Subcontractor

QUANTITY	UM	SUB CONTRACTOR									
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS		TOTAL
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST
	1 ls								60,000	60,000	60,000
TOTAL			0		0		0		60,000	\$	60,000

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 114.1.3
DESCRIPTION: GROUNDWATER REMEDIATION OPERATIONS
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PREPARATIONS	3,637	73,358	141,675	1,050,000	1,265,033
2	REMEDATION	2,450	49,417	35,600	1,319,000	1,403,987
3	RESTORATION	0	0	0	20,000	20,000
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	6,087	122,775	177,275	2,389,000	2,689,050
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	2,082	41,989		41,989
15	HP & SAFETY TRAINING FACTOR	7.5%	457	9,208		9,208
16	JOB CONDITION FACTOR	9.0%	548	11,050		11,050
17	SUBTOTAL		9,174	185,022	2,389,000	2,751,297
18	CONSTRUCTION EQUIPMENT	45.0%	289	5,828	77,432	83,260
19	SUBTOTAL		9,463	190,850	254,707	2,834,557
20	CONSTRUCTION SUPPORT COSTS	15.0%	1,419	28,621		28,621
21	SUBTOTAL		10,882	219,471	254,707	2,863,178
22	CRAFT SUPERVISION	15.0%	1,632	34,549		34,549
23	SUBTOTAL		12,514	254,020	254,707	2,897,727
24	LABOR FRINGES/PAYROLL TAXES	42.7%		108,467		108,467
25	SALES TAX	6.0%			15,282	15,282
26	SUBTOTAL		12,514	362,487	269,989	3,021,476
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					3,021,476
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					3,021,476
31	RMI ENGINEERING	4.0%				25,299
32	SUBTOTAL					3,046,775
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					3,046,775
35	FIELD WORK ADMINISTRATION	5.0%				32,889
36	SUBTOTAL					3,079,664
37	ALL RISK INSURANCE	0.4%				2,763
38	SUBTOTAL					3,082,427
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					3,082,427

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.3.1
DESCRIPTION: GROUNDWATER REMEDIATION OPERATIONS
CAMU -- Preparations

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	PREPARATIONS	3,637	73,358	141,675	1,050,000	1,265,033
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	3,637	73,358	141,675	1,050,000	1,265,033
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	1,244	25,088		25,088
15	HP & SAFETY TRAINING FACTOR	7.5%	273	5,502		5,502
16	JOB CONDITION FACTOR	9.0%	327	6,602		6,602
17	SUBTOTAL		5,481	110,550	1,050,000	1,302,225
18	CONSTRUCTION EQUIPMENT	45.0%	173	3,482	46,266	49,748
19	SUBTOTAL		5,654	114,032	1,050,000	1,351,973
20	CONSTRUCTION SUPPORT COSTS	15.0%	848	17,104		17,104
21	SUBTOTAL		6,502	131,136	1,050,000	1,369,077
22	CRAFT SUPERVISION	15.0%	975	20,641		20,641
23	SUBTOTAL		7,477	151,777	1,050,000	1,389,718
24	LABOR FRINGES/PAYROLL TAXES	42.7%		64,809		64,809
25	SALES TAX	6.0%		11,276		11,276
26	SUBTOTAL		7,477	216,586	1,050,000	1,465,803
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,465,803
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,465,803
31	RMI ENGINEERING	4.0%				16,632
32	SUBTOTAL					1,482,435
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,482,435
35	FIELD WORK ADMINISTRATION	5.0%				21,622
36	SUBTOTAL					1,504,057
37	ALL RISK INSURANCE	0.4%				1,816
38	SUBTOTAL					1,505,873
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,505,873

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.3.1
 GROUNDWATER REMEDIATION OPERATIONS
 PREPARATIONS

SUB CONTRACTOR

R M I &

OTHER COSTS

	QUANTITY	UM	MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL COST
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Treatability & Analysis Subcontractor	1	ls								50,000	50,000	50,000
Construction of Soil Cell Subcontractor	1	ls								200,000	200,000	200,000
Off Gas Treatment System Subcontractor	1	ls								100,000	100,000	100,000
Temp Vapor Stripping Facility	8,000	sf	.35	2,800	20.17	7.06	56,476	14.25	114,000			170,476
Groundwater Treatment Facility	900	sf	.93	837	20.17	18.76	16,882	30.75	27,675			44,557
Groundwater Treatment Subcontractor	1	ls								120,000	120,000	120,000
Groundwater Collection Subcontractor	1	ls								500,000	500,000	500,000
Surf Water Collectn/Treatment Subcontractor	1	ls								80,000	80,000	80,000
TOTAL				3,637			73,358		141,675		1,050,000	\$ 1,265,033

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.3.2
DESCRIPTION: GROUNDWATER REMEDIATION OPERATIONS
CAMU - Remediation

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2	REMEDATION	2,450	49,417	35,600	1,318,970	1,403,987
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	2,450	49,417	35,600	1,318,970	1,403,987
14	RADIOLOGICAL CONDITIONS FACTOR	34.2%	838	16,901		16,901
15	HP & SAFETY TRAINING FACTOR	7.5%	184	3,706		3,706
16	JOB CONDITION FACTOR	9.0%	221	4,448		4,448
17	SUBTOTAL		3,693	74,472	1,318,970	1,429,042
18	CONSTRUCTION EQUIPMENT	45.0%	116	2,346	31,166	33,512
19	SUBTOTAL		3,809	76,818	1,318,970	1,462,554
20	CONSTRUCTION SUPPORT COSTS	15.0%	571	11,517		11,517
21	SUBTOTAL		4,380	88,335	1,318,970	1,474,071
22	CRAFT SUPERVISION	15.0%	657	13,909		13,909
23	SUBTOTAL		5,037	102,244	1,318,970	1,487,980
24	LABOR FRINGES/PAYROLL TAXES	42.7%		43,658		43,658
25	SALES TAX	6.0%		4,006		4,006
26	SUBTOTAL		5,037	145,902	1,318,970	1,535,644
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,535,644
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,535,644
31	RMI ENGINEERING	4.0%				8,667
32	SUBTOTAL					1,544,311
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,544,311
35	FIELD WORK ADMINISTRATION	5.0%				11,267
36	SUBTOTAL					1,555,578
37	ALL RISK INSURANCE	0.4%				946
38	SUBTOTAL					1,556,524
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,556,524

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIPEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.3.2
 GROUNDWATER REMEDIATION OPERATIONS
 REMEDIATION

QUANTITY	UM	SUB CONTRACTOR									TOTAL COST	
		MAN HOURS		LABOR			MATERIAL		RMI & OTHER COSTS			
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		
Demolish Stripping Facility	8,000	sf	.25	2,000	20.17	5.04	40,340	4.00	32,000		72,340	
Demolish Grnd Wtr Facility	900	sf	.50	450	20.17	10.09	9,077	4.00	3,600		12,677	
Oper of Vapor Stripping Unit Subcontractor	1	ls								160,000	160,000	160,000
Exc Former Evap Pond Area Subcontractor	1	ls								20,000	20,000	20,000
Exc & Load LLW Soils Subcontractor	1	ls								230,000	230,000	230,000
Operate Groundwater Unit Subcontractor	18.2	yr								50,000	908,959	908,959
TOTAL				2,450			49,417		35,600		1,318,959	\$ 1,403,976

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.3.3
DESCRIPTION: GROUNDWATER REMEDIATION OPERATIONS
CAMU - Restoration

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	RESTORATION	0	0	0	0	0
4	Backfill by Subcontractor	0	0	0	20,000	20,000
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	20,000	20,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	20,000	20,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	20,000	20,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	20,000	20,000
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	20,000	20,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL	0	0	0	20,000	20,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					20,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					20,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					20,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					20,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					20,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					20,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					20,000

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 PM
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.3.3
 GROUNDWATER REMEDIATION OPERATIONS
 RESTORATION

QUANTITY	UM	SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST
Site Backfill	1,100								18	20,000	20,000
Subcontractor											
TOTAL			0		0		0			20,000	20,000

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.4
DESCRIPTION: WASTE MANAGEMENT
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING & PACKAGING	0	0	0	392,825	392,825
2	STAGING & STORAGE		(See separate Staffing Task Analysis)			
3	SHIPMENTS & DISPOSAL	0	0	0	948,509	948,509
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	1,341,334	1,341,334
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	1,341,334	1,341,334
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	1,341,334	1,341,334
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	1,341,334	1,341,334
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	1,341,334	1,341,334
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	1,341,334	1,341,334
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					1,341,334
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					1,341,334
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					1,341,334
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					1,341,334
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					1,341,334
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					1,341,334
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					1,341,334

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.4.1
DESCRIPTION: WASTE MANAGEMENT
CAMU – Handling & Packaging

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	HANDLING & PACKAGING	0	0	0	392,825	392,825
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	392,825	392,825
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	392,825	392,825
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	392,825	392,825
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	392,825	392,825
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	392,825	392,825
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%		0		0
26	SUBTOTAL		0	0	392,825	392,825
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%		0		0
28	SUBTOTAL					392,825
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					392,825
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					392,825
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					392,825
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					392,825
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					392,825
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					392,825

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT

WBS CODE 1.1.4.1.4.1

WASTE MANAGEMENT

HANDLING AND PACKAGING

	QUANTITY	UM	SUB CONTRACTOR						RMI &			
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
			UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	TOTAL COST
Hndl & Pack B-25 Containers Subcontractor	550	ea							473	260,150		260,150
Hndl & Pack B-25 Containers	111	ea						473	52,503		52,503	
Hndl & Pack B-25 Containers	17	ea						473	8,041		8,041	
Hndl & Pack Sealand Containers	9	ea						3,564	32,076		32,076	
Hndl & Pack Sealand Containers	5	ea						3,564	17,820		17,820	
Sales Tax	6	pct							370,590	22,235		22,235
TOTAL				0			0				0	392,825 \$ 392,825

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.4.3
DESCRIPTION: WASTE MANAGEMENT
CAMU – Shipments & Disposal

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	SHIPMENTS & DISPOSAL	0	0	0	948,509	948,509
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	948,509	948,509
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	948,509	948,509
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	948,509	948,509
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	948,509	948,509
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	948,509	948,509
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	948,509	948,509
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					948,509
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					948,509
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					948,509
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					948,509
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					948,509
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					948,509
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					948,509

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PES1
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 PM
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.4.3
 WASTE MANAGEMENT
 SHIPMENTS AND DISPOSAL

		SUB CONTRACTOR						RMI &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
	QUANTITY UM	UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	
Ship & Dispose B-25 Containers Subcontractor	550 ea								1,073	590,000	590,000
Ship & Dispose B-25 Containers	111 ea								1,073	119,073	119,073
Ship & Dispose B-25 Containers	17 ea								1,073	18,236	18,236
Ship & Dispose S/L Containers	9 ea								15,800	142,200	142,200
Ship & Dispose S/L Containers	5 ea								15,800	79,000	79,000
TOTAL										948,509	\$ 948,509

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.5
DESCRIPTION: ENVIRONMENTAL SAFETY & HEALTH
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	MGRS	FIELD LABOR		RMI & SUBS	TOTAL COST
			LABOR	MATERIAL		
DIRECT COSTS						
1	ENVIRONMENTAL	0	0	0	100,000	100,000
2	HEALTH PHYSICS	(See separate Staffing Task Analysis)				
3	SAFETY	0	0	0	60,000	60,000
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	160,000	160,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	160,000	160,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	160,000	160,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	160,000	160,000
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	160,000	160,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	160,000	160,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					160,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					160,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					160,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					160,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					160,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					160,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					160,000

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.5.1
DESCRIPTION: ENVIRONMENTAL SAFETY & HEALTH
CAMU - Environmental

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	ENVIRONMENTAL	0	0	0	0	0
2	ENVIRONMENTAL - Subcontractor	0	0	0	100,000	100,000
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	100,000	100,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0	0
17	SUBTOTAL	0	0	0	100,000	100,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL	0	0	0	100,000	100,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0	0
21	SUBTOTAL	0	0	0	100,000	100,000
22	CRAFT SUPERVISION	0.0%	0	0	0	0
23	SUBTOTAL	0	0	0	100,000	100,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0	0
25	SALES TAX	0.0%	0	0	0	0
26	SUBTOTAL	0	0	0	100,000	100,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					100,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					100,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					100,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					100,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					100,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					100,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					100,000

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.5.1
 ENVIRONMENTAL SAFETY AND HEALTH
 ENVIRONMENTAL

QUANTITY	UM	SUB CONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	TOTAL	
		RATE	HOURS	RATE	COST	COST	COST	COST	COST	
Permits & Legal Fees	1	ls						100,000	100,000	100,000
Subcontractor										
TOTAL			0		0		0	100,000	5	100,000

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.5.3
DESCRIPTION: ENVIRONMENTAL SAFETY & HEALTH
CAMU - Safety

27-APR-94

#	DESCRIPTION	MTRS	FIELD LABOR		RMI & SUBS	TOTAL COST
			LABOR	MATERIAL		
DIRECT COSTS						
1						
2						
3	SAFETY		0	0	0	0
4	SAFETY Inspection by Subcontractor		0	0	0	60,000
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS		0	0	0	60,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	0	60,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL		0	0	0	60,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	0	60,000
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	0	60,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	0	60,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					60,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					60,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					60,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					60,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					60,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					60,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					60,000

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R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIFEB94 PES

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.5.3
 ENVIRONMENTAL SAFETY AND HEALTH
 SAFETY

	QUANTITY	UM	SUB CONTRACTOR						RMI &			
			MAN HOURS		LABOR		MATERIAL		OTHER COSTS			
			UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
			RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST
Inspection	1	ls								60,000	60,000	60,000
Subcontractor												
TOTAL				0		0		0		60,000	\$	60,000

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.6
DESCRIPTION: LABORATORY SERVICES
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	Sample Containers & Shipping		(See M&S portion of Staffing Task Analysis)			
2	Final Soil Characterization Lab Services	0	0	0	208,221	208,221
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	208,221	208,221
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL	0	0	0	208,221	208,221
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL	0	0	0	208,221	208,221
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL	0	0	0	208,221	208,221
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL	0	0	0	208,221	208,221
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL	0	0	0	208,221	208,221
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					208,221
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					208,221
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					208,221
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					208,221
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					208,221
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					208,221
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					208,221

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CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.6.
 LABORATORY SERVICES

QUANTITY	UM	SUB CONTRACTOR									RMI &		
		MAN HOURS		LABOR			MATERIAL		OTHER COSTS		TOTAL	COST	
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL			
RATE	HOURS	RATE	COST	COST	COST	COST	COST	COST	COST				

Sample Containers & Shipping CAMU	450	ea												
Lab Service Analysis Fee for Final CAMU Soil Characterization	945	ea										220	208,221	208,221
TOTAL				0			0					0	208,221	5 208,221

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.1.7
DESCRIPTION: INDEPENDENT VERIFICATION
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

27-APR-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHR	LABOR	MATERIAL		
DIRECT COSTS						
1	INDEPENDENT VERIFICATION	0	0	0	8,910	8,910
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	8,910	8,910
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0	0
17	SUBTOTAL		0	0	8,910	8,910
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL		0	0	8,910	8,910
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0	0
21	SUBTOTAL		0	0	8,910	8,910
22	CRAFT SUPERVISION	0.0%	0	0	0	0
23	SUBTOTAL		0	0	8,910	8,910
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0	0
25	SALES TAX	0.0%	0	0	0	0
26	SUBTOTAL		0	0	8,910	8,910
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					8,910
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					8,910
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					8,910
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					8,910
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					8,910
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					8,910
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					8,910

fn=1141gw.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PRSI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 4-27-94 @ 1:38 pm
 FILE NAME RMIFEB94.PEE

CORRECTIVE ACTION MGMT UNIT GROUNDWAT
 WBS CODE 1.1.4.1.7.
 INDEPENDENT VERIFICATION

QUANTITY	UM	SUB CONTRACTOR						R M I &			
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL	
		UNIT	TOTAL	CREW	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	TOTAL
		RATE	HOURS	RATE	COST	COST	COST	CCST	COST	COST	COST

Independent Soil Verification	18	smpl							495	8,910	8,910
TOTAL			0		0		0		8,910	\$	8,910

SITE-WIDE GROUNDWATER

1.1.4.2

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.2
DESCRIPTION: SITE-WIDE GROUNDWATER

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	TECHNICAL SUPPORT (See separate A/E Task Analysis)	0	0	0	8,000	8,000
2	CHARACTERIZATION	0	0	0	72,000	72,000
3	GROUNDWATER REMEDIATION OPERATIONS	(Based on current data, remediation will NOT be required.)				
4	WASTE MANAGEMENT	(See separate Staffing Task Analysis)				
5	ENVIRONMENTAL SAFETY AND HEALTH	(See separate Staffing Task Analysis)				
6	LABORATORY SERVICES	(See separate Staffing Task Analysis)				
7	INDEPENDENT VERIFICATION	0	0	0	9,900	9,900
8	Rounding to the nearest \$1000				100	100
9						
10						
11	RMI Staffing Plan – Labor	(See separate Staffing Task Analysis)				
12	RMI Staffing Plan – Supplies	(See separate Staffing Task Analysis)				
13	SUBTOTAL DIRECTS	0	0	0	90,000	90,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY 1 SUBTOTAL	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	90,000	90,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	90,000	90,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	90,000	90,000
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	90,000	90,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0		0
25	SALES TAX	0.0%	0	0		0
26	SUBTOTAL		0	0	90,000	90,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.0%				0
28	SUBTOTAL					90,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.0%				0
30	SUBTOTAL					90,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					90,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					90,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					90,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					90,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					90,000

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RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.2.2
DESCRIPTION: CHARACTERIZATION
SITE-WIDE GROUNDWATER

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	CHARACTERIZATION -- Eckenfelder, Inc. Engineering	0	0	0	72,000	72,000
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	72,000	72,000
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0		0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0		0
16	JOB CONDITION FACTOR	0.0%	0	0		0
17	SUBTOTAL		0	0	72,000	72,000
18	CONSTRUCTION EQUIPMENT	0.0%	0	0		0
19	SUBTOTAL		0	0	72,000	72,000
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0		0
21	SUBTOTAL		0	0	72,000	72,000
22	CRAFT SUPERVISION	0.0%	0	0		0
23	SUBTOTAL		0	0	72,000	72,000
24	LABOR FRINGES/PAYROLL TAXES	0.0%		0		0
25	SALES TAX	0.0%			0	0
26	SUBTOTAL		0	0	72,000	72,000
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%				0
28	SUBTOTAL					72,000
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%				0
30	SUBTOTAL					72,000
31	RMI ENGINEERING	0.0%				0
32	SUBTOTAL					72,000
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%				0
34	SUBTOTAL					72,000
35	FIELD WORK ADMINISTRATION	0.0%				0
36	SUBTOTAL					72,000
37	ALL RISK INSURANCE	0.0%				0
38	SUBTOTAL					72,000
39	PERFORMANCE & PAYMENT BOND	0.0%				0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					72,000

fn=1142gv.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (rev.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:37 PM
 FILE NAME RMIFEB94.FEE

SITE-WIDE GROUNDWATER
 WBS CODE 1.1.4.2.2.
 CHARACTERIZATION

QUANTITY	UM	SUBCONTRACTOR						RMI &		
		MAN HOURS		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	CREW RATE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST		
Monitoring Wells	18 ea							4,000	72,000	72,000
TOTAL			0			0			72,000	\$ 72,000

RMI ENVIRONMENTAL SERVICES

RMI DECOMMISSIONING PROJECT
ASHTABULA, OHIO

ESTIMATE MARKUPS (BY WBS)

WBS NO.: 1.1.4.2.7
DESCRIPTION: INDEPENDENT VERIFICATION
SITE-WIDE GROUNDWATER

10-FEB-94

#	DESCRIPTION	FIELD LABOR			RMI & SUBS	TOTAL COST
		MHRS	LABOR	MATERIAL		
DIRECT COSTS						
1	INDEPENDENT VERIFICATION	0	0	0	9,900	9,900
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	SUBTOTAL DIRECTS	0	0	0	9,900	9,900
14	RADIOLOGICAL CONDITIONS FACTOR	0.0%	0	0	0	0
15	HP & SAFETY TRAINING FACTOR	0.0%	0	0	0	0
16	JOB CONDITION FACTOR	0.0%	0	0	0	0
17	SUBTOTAL	0	0	0	9,900	9,900
18	CONSTRUCTION EQUIPMENT	0.0%	0	0	0	0
19	SUBTOTAL	0	0	0	9,900	9,900
20	CONSTRUCTION SUPPORT COSTS	0.0%	0	0	0	0
21	SUBTOTAL	0	0	0	9,900	9,900
22	CRAFT SUPERVISION	0.0%	0	0	0	0
23	SUBTOTAL	0	0	0	9,900	9,900
24	LABOR FRINGES/PAYROLL TAXES	0.0%	0	0	0	0
25	SALES TAX	0.0%	0	0	0	0
26	SUBTOTAL	0	0	0	9,900	9,900
27	SUBTIER SUBCONTRACTOR OH/FEE	0.00%	0	0	0	0
28	SUBTOTAL					9,900
29	SUBCONTRACTOR ADMIN OF SUBCONTRACTORS	0.00%	0	0	0	0
30	SUBTOTAL					9,900
31	RMI ENGINEERING	0.0%	0	0	0	0
32	SUBTOTAL					9,900
33	SUBCONTRACTOR OVERHEAD & PROFIT	0.0%	0	0	0	0
34	SUBTOTAL					9,900
35	FIELD WORK ADMINISTRATION	0.0%	0	0	0	0
36	SUBTOTAL					9,900
37	ALL RISK INSURANCE	0.0%	0	0	0	0
38	SUBTOTAL					9,900
39	PERFORMANCE & PAYMENT BOND	0.0%	0	0	0	0
40	Subtotal WITHOUT Task Analysis, G&A, Contingency, Fee, OR Escalation					9,900

fn=1142gw.wk3

R M I ENVIRONMENTAL SERVICES

CLIENT DOE / RMI TITANIUM CO.
 ADDRESS ASHTABULA, OHIO
 ESTIMATOR RMI/PESI
 ESTIMATE TYPE CDR (REV.2)

RMI TITANIUM COMPANY
 EXTRUSION PLANT
 GROUNDWATER REMEDIATION
 WBS LEVEL 6 DETAIL

ESTIMATE DATE February 17, 1994
 PRINT DATE 2-10-94 @ 2:37 PM
 FILE NAME RMIFB94.EEE

SITE-WIDE GROUNDWATER
 WSS CODE 1.1.4.2.7.
 INDEPENDENT VERIFICATION

RMI &

SUBCONTRACTOR

QUANTITY	UM	MAN HOURS		CREW RATE		LABOR		MATERIAL		OTHER COSTS		TOTAL COST
		UNIT RATE	TOTAL HOURS	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST			
10	smpl										495	4,950
10	smpl										495	4,950
TOTAL			0				0				9,900	\$ 9,900

Ind. Grndwtr Verif. On-Site
 Ind. Grndwtr Verif. Off-Site