

**MVF Decommissioning Cost Estimate For Financial Assurance**  
**Basis of Estimate**

Task #	Task Name	Number of Personnel Assigned	Job Functions Assigned	Schedule Duration (weeks)	Total Hours per Position	Number of Waste Containers	Task Description / Assumptions
General	All	See Task Detail Below					Overarching scope assumption is that the MVF will cease operation after a defined operating period and return to "normal" RCRA hazardous waste use by US Ecology. All permanent and installed structures will remain, sans security fencing installed around rail track. Scope includes decontamination of structures and surfaces, transportation and disposal of any waste remaining at the site, and performance of Final Status Surveys (FSS) in accordance with MARSSIM to demonstrate successful license termination.
1	Project Planning & Document Preparation	6	PM, CHP, HP, Field Supervisor, Safety, T&D Coordinator	6	120		Decommissioning Plan, Characterization Work Plan, T&D Plan, SSHP. All job functions work part-time on planning documents. All defined job functions assumed to be part-time (20 hrs/wk) for 6 weeks. Schedule duration does not include regulatory review cycles.
2	Site Characterization	9	PM, CHP, HP, Field Supervisor, Safety, Technicians (4)	2	80		Building Surface Measurements, Soil Sampling, MARRSIM characterization surveys. All positions assumed to be full-time for 2 weeks, except CHP (half-time). Assumes one Mob-De-mob cycle for each team member including airfare, per-diem, lodging, etc.
3	Site Work	10	PM, CHP, HP, Field Supervisor, Safety, T&D Coordinator, Technicians (4)	3	120		Decontamination, Dismantlement (as required) and Waste Package Loading/Shipping. All defined job functions (except CHP) assumed to be full-time in the field for 3 weeks. Light building contamination assumed due to low activity concentrations of bulk waste handled in facility (limited by USEI WAC). Little to no soil contamination due to containment of bulk waste offloading activities and very limited waste processing/repackaging. Assumes one Mob-De-mob cycle for each team member including airfare, per-diem, lodging, etc.
4	Waste Transportation and Disposal	9	PM, HP, Field Supervisor, Safety, T&D Coordinator, Technicians (4)	1	40		Waste package loading, marking, labeling, surveying and disposal site manifesting. Scope also includes all transportation coordination and container fleet management activities. All defined job functions (except CHP) assumed to be full-time in the field for 1 week (in addition to 'Site Work' task). Waste shipping will begin concurrent with 'Site Work' Task and continue beyond.
4a	LARW					10	1000 tons of low-activity waste (10 railcars) assumed to be in inventory. Alternate disposal at USE Idaho assumed.
4b	LLRW					3	100 ft3 of LLRW in (3) B-25 boxes assumed in inventory. Class A LLRW disposal assumed.
4c	Sealed Sources					3	3 drums of sources assumed to be in inventory. Class A LLRW disposal assumed.
5	MARSSIM Final Status Survey	8	PM, CHP, HP, Field Supervisor, Technicians (4)	3	120		Includes all FSS surveys, documentation, report generation, and regulatory review cycles.

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 As of: 01/30/2019

LABOR						
Labor Category	Number of Personnel	Rate (Fully Burdened)	Unit	Number of Hours	Extended	Notes
Project Manager	1	\$150.00	\$/hour	480	\$72,000.00	
Field Supervisor	1	\$125.00	\$/hour	480	\$60,000.00	
T&D Coordinator	1	\$75.00	\$/hour	280	\$21,000.00	
Technician	4	\$65.00	\$/hour	360	\$93,600.00	
Safety Engineer	1	\$125.00	\$/hour	360	\$45,000.00	
Certified Health Physicist	1	\$180.00	\$/hour	240	\$43,200.00	Assumed half-time
Health Physicist	1	\$125.00	\$/hour	480	\$60,000.00	
					\$0.00	
<b>Labor Subtotal</b>				<b>2680</b>	<b>\$394,800.00</b>	
NON-LABOR						
Item	Number of Personnel or Items	Rate	Unit	Total Number	Extended	Notes
Per diem - Meals	10	\$50.00	day	300	\$15,000.00	Characterization + Site Work
Lodging + Tax (Boise, ID)	10	\$150.00	day	300	\$45,000.00	Characterization + Site Work
Rental Car	3	\$400.00	week	9	\$3,600.00	Characterization + Site Work
Rental Car Fuel	3	\$50.00	each	9	\$450.00	Characterization + Site Work
Parking	3	\$75.00	week	9	\$675.00	Characterization + Site Work
Airfare	10	\$1,100.00	RT	20	\$22,000.00	Characterization + Site Work
Supplies	n/a	\$5,000.00	lot	1	\$5,000.00	
Heavy Equipment	n/a	\$2,500.00	week	3	\$7,500.00	
Lab Analysis	n/a	\$400.00	sample	100	\$40,000.00	(50) characterization and (50) FSS samples
					\$0.00	
					\$0.00	
					\$0.00	
<b>Subtotal - Non-Labor</b>					<b>\$139,225.00</b>	
WASTE TRANSPORTATION & DISPOSAL						
Item		Rate	Unit	Number	Extended	Notes
Low-Activity Soils and Debris T&D		\$300.00	ton	1000	\$300,000.00	US Ecology Idaho
LLRW T&D - B25 Boxes		\$600.00	ft3	300	\$180,000.00	Energy Solutions
T&D of Sources - 3 drums		\$30,000.00	each	3	\$90,000.00	US Ecology Washington or WCS
					\$0.00	
					\$0.00	
					\$0.00	
<b>Subtotal - Waste T&amp;D</b>					<b>\$570,000.00</b>	
<b>TOTAL</b>					<b>\$1,104,025.00</b>	
<b>NON-LABOR MARK-UP</b>			<b>10%</b>		<b>\$13,922.50</b>	
<b>GRAND TOTAL</b>					<b>\$1,117,947.50</b>	
<b>CONTINGENCY</b>				<b>5%</b>	<b>\$55,897.38</b>	
<b>GRAND TOTAL (INCL CONTINGENCY)</b>					<b>\$1,173,844.88</b>	