

**Record of Decision
Part 2 – The Decision Summary**

**Table 56
Cost Summary for Selected Remedy (Alternative CMS2)**

<u>CAPITAL COSTS</u>	<u>COST</u>
Pre-Design Studies	\$310,000
General Construction Costs Common to all Components of Work	\$827,000
Tailings Impoundment Improvements	\$4,331,000
Waste Rock Pile No. 3 (WRP3)	\$3,002,000
Ore Pad and Mine Operations Area (Mine Ops, Etc.)	\$694,000
Residential Lots	\$314,000
PCB Soils	\$587,000
Sediment Dredging of Goose Pond and salt marsh	\$2,124,000
Wetland Mitigation, including Goose Cove and Dyer Cove	\$1,245,000
Institutional Controls	\$31,000
Monitoring Well Installation	\$66,000
Long-term Monitoring Plan	\$35,000
	<u>Direct Cost Subtotal</u> \$13,566,000
	Contingency Cost (@30 Percent) \$4,069,800
	<u>Direct and Contingency Cost Subtotal</u> \$17,635,800
Indirect Capital Costs (Engineering, Design, Construction and Project Mgmt)	<u>\$3,880,000</u>
TOTAL CAPITAL COSTS	\$21,515,800
 Total Long Term Operation, Maintenance and Monitoring for 30 years at 7% discount rate	 <u>\$1,324,000</u>

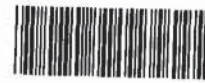
Total Capital and Long Term Operation, Maintenance and Monitoring for 30 years at 7% **\$22,839,800**

Total Long Term Operation, Maintenance and Monitoring in nominal costs for 100 years at 2.7% discount rate would be \$3,398,000 and nominal costs for 100 years would be \$9,718,000.

The information in this cost estimate summary table is based on the best available information regarding the anticipated scope of the remedial alternative. A 7% discount rate was used to estimate present worth for the selected remedy. Costs are also presented for a 2.7% discount rate and for the nominal (non-discounted cost). Changes in the cost elements are likely to occur as a result of new information and data collected during the engineering design of the remedial alternative. Major changes may be documented in the form of a memorandum in the Administrative Record file, an Explanation of Significant Difference (ESD), or a ROD amendment. This is an order-of-magnitude engineering cost estimate that is expected to be within +50 to -30 percent of the actual project cost.

3. Expected Outcomes of the Selected Remedy

The selected remedy for OU1 will eliminate the current human health risk from exposure to PCBs in the former Mine Operations area and the risk from exposure to lead and arsenic in residential properties by removal of this material. This will allow for unrestricted use of the residential properties. The removal of the PCBs to less than 1 mg/kg will allow for unrestricted



**U.S. ENVIRONMENTAL PROTECTION AGENCY
EPA NEW ENGLAND**

RECORD OF DECISION

OPERABLE UNIT 1

CALLAHAN MINE SUPERFUND SITE

SEPTEMBER 2009

Callahan Mine

S.4

457914