

Table 3.2
Construction Cost Estimate
Preliminary Evaluation of Alternatives
Alternative 4 - "Hot Spot" Excavation and Off-Site Disposal

Capital Costs

| Cost Item | Description | Unit | Quantity | Unit Cost | Total Cost |
|-----------|---|-------|----------|-----------|------------------|
| I | MOBILIZATION/DEMOLITION | | | | |
| b. | Excavation Equipment backhoe, bulldozer, vibratory roller, etc. | LS | 1 | \$3,000 | \$3,000 |
| b. | Misc. Construction Expenses coordination, travel, physical exams permits: air, discharge, and construction | LS | 1 | \$5,000 | \$5,000 |
| | Subtotal | | | | \$8,000 |
| II | SITE PREPARATION | | | | |
| a. | Set-up of trailers, decon, etc. | LS | 1 | \$2,000 | \$2,000 |
| b. | Site Clearing brush, trees, and debris | LS | 1 | \$1,000 | \$1,000 |
| c. | Equipment rental, supplies, phone, and power | Month | 1 | \$1,000 | \$1,000 |
| d. | Health and safety equipment, disposal | Month | 1 | \$1,000 | \$1,000 |
| e. | Air Monitoring | Month | 1 | \$1,000 | \$1,000 |
| f. | Survey (Construction and Records) | Day | 3 | \$800 | \$2,400 |
| g. | Work Plan / Health and Safety Plan | LS | 1 | \$3,000 | \$3,000 |
| h. | Meetings | Each | 1 | \$1,000 | \$1,000 |
| | Subtotal | | | | \$12,400 |
| III | "HOT SPOT" SOIL EXCAVATION / DISPOSAL | | | | |
| a. | Excavation & Loading of contaminated soils | CY | 560 | \$16 | \$8,960 |
| b. | UXO identification | Each | 1 | \$15,000 | \$15,000 |
| b. | Off-site landfill as non-hazardous waste (1 CY = 1.5 tons) (\$51/ton to BFI Tesson Rd., 40 miles @0.15/ton-mile) | CY | 860 | \$86 | \$49,160 |
| c. | Backfill excavated areas with a clean fill | CY | 420 | \$15 | \$6,300 |
| d. | Backfill excavated areas with 6" of topsoil | CY | 140 | \$25 | \$3,500 |
| e. | Seed / fertilize topsoil | Acres | 1 | \$1,700 | \$1,700 |
| | Subtotal | | | | \$83,620 |
| IV | ANALYTICAL TESTING | | | | |
| a. | TCLP metals on excavated soil | Each | 1 | \$600 | \$600 |
| b. | Confirmatory sampling for metals | Each | 15 | \$150 | \$2,250 |
| | Subtotal | | | | \$2,850 |
| V | CLOSURE | | | | |
| a. | Documentation | Each | 1 | \$25,000 | \$25,000 |
| | Subtotal | | | | \$25,000 |
| | SUBTOTAL CAPITAL COSTS | | | | \$131,870 |
| | Engineering (for design and construction mgmt.) | | | | \$40,000 |
| | Contingency 20.0 % | | | | \$26,374 |
| | TOTAL CAPITAL COSTS (P_c) | | | | \$200,000 |

Annual Operation and Maintenance Costs P_{o+m} = 0 (No O&M is necessary after remediation)

\$200,000

ALTERNATIVE 4 TOTAL PW COSTS (P_t = P_c + 19.6 * P_{o+m})
 (based on a 3% interest rate)

\$200,000