

8. Comparative Analysis of Removal Action Alternatives
Table 8-1: Comparative Alternative Analysis

Evaluation Criteria	Alternative 1: No Action	Alternative 2: Limited Action, Onsite Consolidation and Institutional Controls	Alternative 3: Onsite Consolidation and In Place Stabilization	Alternative 4: Onsite Consolidation, Stabilization, and Capping	Alternative 5: Offsite Disposal
EFFECTIVENESS	Overall – Not effective	Overall – Potentially Effective	Overall - Effective	Overall – Effective	Overall – Effective
Protective of public health and community	No	Potentially Yes – with success of perimeter fencing	Yes – effective in capped and fenced areas	Yes – with regard to surface of site	Yes – with regard to surface of site
Protective of workers during implementation	No workers required for implementation	Yes – Engineering controls to be employed	Yes – Engineering controls to be employed	Yes – Engineering controls to be employed	Yes – Engineering controls to be employed
Protective of the environment	No	Potentially Yes	Yes - partially	Yes	Potentially Yes
Complies with ARARs	No	Potentially Yes	Yes	Yes	Potentially Yes
Ability to achieve removal action objectives	No	Not completely. Residual exposed contamination will remain. Possibility of surface water contamination due to contact with the remaining surface materials.	Yes with slight possibility of surface water contamination due to contact with the remaining surface materials	Yes	Yes
Level of treatment / containment expected	None	Low level of containment	Moderate level of containment	High level of containment to occur on-site	High level of containment to occur off-site
Degree to which treatment will be irreversible	No treatment specified	No treatment specified	No treatment specified	No treatment specified	No treatment specified
Satisfies the CERCLA preference for treatment	No	No	No	No	No
No residual effect concerns	Significant residual effect concerns remain	Residual effects remain in areas not capped.	Residual effects remain in areas not capped.	Minimal residual effects.	No residual effects concerning surface wastes
Will maintain control until long-term solution is implemented.	Will not implement any controls	Action is proposed long-term solution	Action is proposed long-term solution	Action is proposed long-term solution	Action is proposed long-term solution
IMPLEMENTABILITY	Overall – Technically implementable, but not administratively implementable	Overall – Implementable	Overall – Implementable	Overall – Implementable	Overall – Implementable
Technical feasibility	No technology required	Feasible using standard methods and procedures	Feasible using standard methods and procedures	Feasible using standard methods and procedures	Feasible using standard methods and procedures
Construction and operational considerations	No construction or operations required	Moderate level of operational requirements – excavation, consolidation, compaction, grading, capping	Moderate to High level of operational requirements – excavation, consolidation, compaction, grading, capping	High level of operational requirements – excavation, consolidation, compaction, grading, capping	Very high level of operational requirements – excavation, consolidation, compaction, grading, transport of waste
Demonstrated performance/useful life	Performance and useful life of technology is inapplicable	Adequate life expectancy	Adequate life expectancy	Adequate life expectancy	Adequate life expectancy
Adaptable to environmental conditions	Environmental conditions will not make Site more or less of a threat	Yes	Yes	Yes	Yes
Can be implemented in one year	Yes	Yes	Yes	Yes	Yes
Availability	Yes	Yes	Yes	Yes	Yes
Equipment	Requires no equipment	Yes	Yes	Yes	Yes
Personnel and services	Requires no personnel or services	Yes	Yes	Yes	Yes
Outside laboratory testing capacity	Requires no laboratory testing	Yes – sufficient	Yes – sufficient	Yes - sufficient	Yes - sufficient
Off-site treatment and disposal capacity	Requires no off-site treatment or disposal	No offsite treatment or disposal	No offsite treatment or disposal	No offsite treatment or disposal	Offsite disposal is sufficient
Post removal site control and monitoring	Requires no post removal action site control	Required	Required	Required	Not required
Permits required	Permits not required	Permits not required	Permits not required	Permits not required	Permits not required
Easements or rights-of-way required	No	No	No	No	No
Impact on adjoining property	The potential for the Site to impact adjoining property remains unchanged	Impacts to adjoining properties may occur through surface water contamination should cap erode, or if remaining exposed materials erode or become wind blown	Impacts to adjoining properties may occur through surface water contamination should caps erode, or if remaining exposed materials erode or become wind blown	Impacts to adjoining properties may occur through surface water contamination should caps erode.	Impacts to adjoining property may occur during transport of waste to off-site facility.
Ability to impose institutional controls	No institutional controls will be imposed	Yes	Yes	Yes	Yes – during construction activities
Community acceptance	Unknown, but can be determined through public comment	Unknown, but can be determined through public comment	Unknown, but can be determined through public comment	Unknown, but can be determined through public comment	Unknown, but can be determined through public comment
COST	\$0	\$241,200	\$1,857,500	\$3,858,200	\$60,222,400