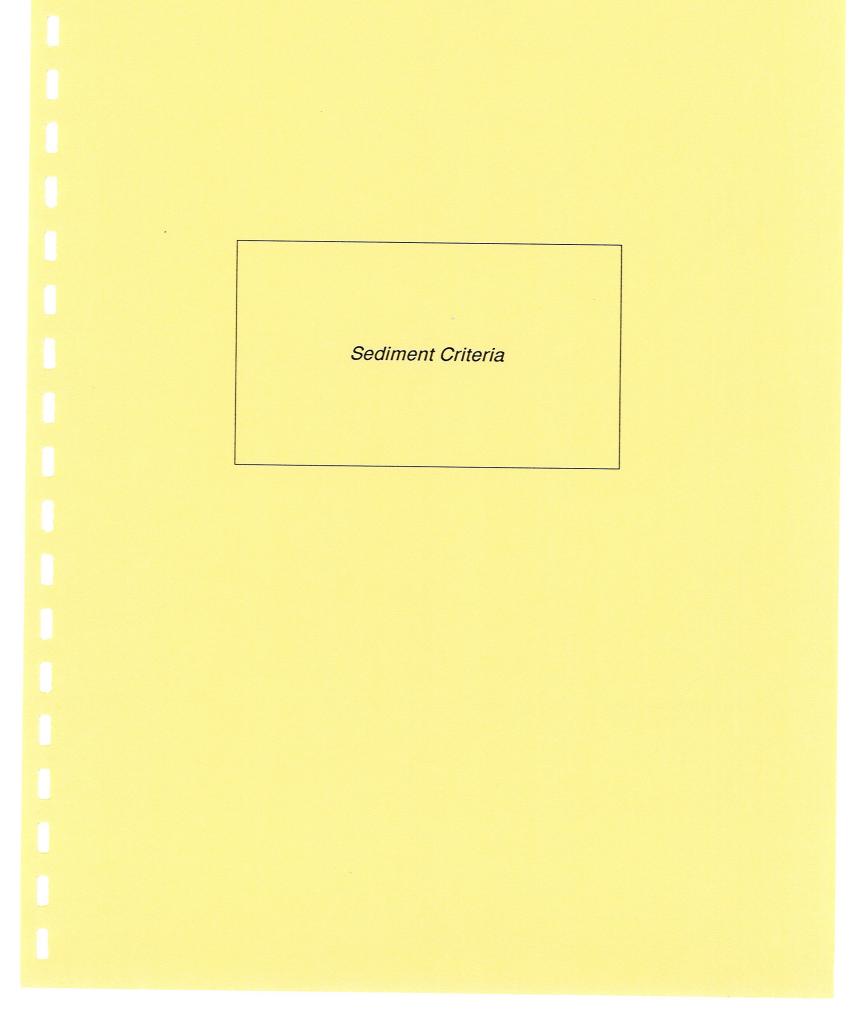
APPENDIX A Standards, Criteria, and Guidelines



### Sediment Criteria - December 1989

Used as Guidance by the Bureau of Environmental Protection, Division of Fish and Wildlife, New York State Department of Environmental Conservation

Note: This document is used as guidance by the Division of Fish and Wildlife. It is neither a standard nor a policy of the Department.

### I. Introduction and Overview of Sediment Criteria Methodology

On February 2 and 3. 1989, the USEPA presented to its Science Advisory Board (SAB) a methodology for deriving sediment criteria for non-polar (or non-ionic) organic chemicals. It is known as the equilibrium partitioning (EP) approach. A briefing document was given to the SAB which summarized the theoretical basis for the EP methodology and supporting lab and field data, and included the first list of interia criteria derived by the method (EPA 1989).

The methodology has been discussed in the scientific community for several years. It is based on the theory that toxics in sediments will exert their effect, either toxicity or bloaccumulation, to the extent that the chemical becomes freely bioavailable in the sediment interstitial (pore) water. It has been determined that the best sediment parameter with which to make predictions of bioavailability of non-polar organics in sediments is the fraction of organic carbon in the sediment. For sediments which exceed 0.5% total organic carbon the concentration of the chemical in the pore water can be predicted dividing the bulk sediment concentration by the product of the sediment/organic carbon partition coefficient  $(K_{OC})$  and the fraction organic carbon. Few K are accurately known, however it has been determined that  $K_{_{\hbox{\scriptsize OM}}}$  (octanol/water partition coefficient) is very nearly equal to  $K_{_{\hbox{\scriptsize OC}}}$  and may be substituted for  $\boldsymbol{K}_{\mathrm{od}}$  in this calculation. By setting the pore water concentration equal to the water quality standard or criterion for the chemical a sediment criterion can be calculated by solving for the bulk sediment concentration. The sediment criterion algorithm normalized for organic carbon (OC) follows:

Sediment with contaminants in excess of the criteria would be predicted to contain interstitial water in excess of the AWOS/GV. The PCB AWQS that is the basis for the sediment criterion of 1.4 g/gOC is designed to protect wildlife which consume other biota. Therefore, exceedance of the sediment criterion would be predicted to cause accumulation of PCB in surface water biota to levels that would be narmful to wildlife consumers of the biota.

Table 1 contains sediment disteria for a number of non-polar organic chemicals. For many of the themicals, there is more than one criterion, reflecting the varied environmental protection objectives of the AWQS/GV/C used to calculate the initiati. Exceedance of the aquatic toxicity based criterion for a chemical would be predicted to cause toxicity to benchic or epibenthic life. Exceedance of the human health residue based criterion would be predicted to cause accumulation of the themicals in aquatic animals to levels that would exceed a human health tolerance, action level or cancer risk dose (depending on the basis of the AWQS/GV/C). Exceedance of the wildlife residue based criterion for a chemical would be predicted to cause accumulation of the chemical in aquatic animals to levels that would be harmful to wildlife consumers of the animals.

There are a number of sediment priteria in Table 1 whose AWQS/GV/C is followed by the footnete "+". The human health based water quality criteria followed by this footnete are 1 X 10<sup>-6</sup> cancer risk AWOC derived by the method for calculating water quality standards and guidance values in 6NYCRR 701.12. The wildlife based water quality criteria followed by this footnote are derived by dividing tish flesh criteria from Newell et al. (1987) by bioaccumulation factors.

Until the non-polar method receives SAB approval and subsequent public review, there will likely be controversy about its use. If its use at a particular site is questioned, then the criteria should be used in conjunction with sediment toxicity and bioaccumulation tests. A limited number of such tests should be conducted to site-specifically calibrate the criteria.

For polar organics (except for phenols) and metals there are no algorithms to calculate sediment criteria in order to account for variable sediment characteristics which may affect metals texacity. However, following the logic above, in order to ensure compliance with water quality standards, interstitial (pore) water should not exceed AWQS/GV/C for polar organics in fOGS 1.1.1. This application of AWQS/GV/C is complicated by the fact that dissolved organic carbon (DOC) in pore water is penerally quite a bit higher than in the water column. DOC tends to reduce t xicity and bioaccumulation of chemicals. Since water column DOC is esually low AWQS/GV/C are not modified by DOC known to occur in specific waters. If partitioning between DOC and a chemical is known, then the effect of fOC on toxicity or bioaccumulation may be accounted for, and AWQS/GV/C may be applied to pore water. RDOC is known for many chemicals. Also, chemicals with low Roc do not show uptake suppressed by DOC. Appended are some methods for collecting interstitial water. Along with references.

For metals, the primary concern in sediments is toxicity to benthic (bottom) organisms. The Ontains Ministry of the Environment reviewed a number of methods to derive sediment criteria, each with a somewhat different level of benthos protection, and calculated metals criteria for each as data was available (MOE 1989). Persaud (1989) derived from MOE (1988) no-effect

For the measurement technique DiToro et al cited Morse (1987). Appendix 2 is a procedure used by DiToro et al which presumably is derived from Morse et al (1987).

There is concern that use of bioaccumulation based sediment criteria derived by the EP method may not be appropriate if the surface water impairment of concern is an elevated residue in peligic fish. The SAB is addressing this question. It seems to be well accepted that residues in benthic animals are accurately modeled by the EP method. but for low  $K_{\mbox{\scriptsize OW}}$  chemicals (less than about  $10^5$ ), residues in pelagic fish may not be clearly related to pore water concentrations. However, for high  $K_{ow}$  chemicals (greater than about  $10^5$ ) biomagnification through the aquatic food chain is known to occur, and EP criteria may actually be underprotective. For these chemicals, there may be an alternative approach to derive sediment criteria. Recent studies with PCB and 2.3.7.8-TCDD indicate that residues in fish can be predicted by sediment to fish bioaccumulation factors. Accumulation in edible fillet with 3% lipid from sediment with 3% 0C is about 0.1-1 times the sediment concentration for 2.3.7.8-TCDD and about 1-10 times the sediment concentration for PCB. Using these sediment to fish accumulation factors, sediment criteria can be back calculated from fish residue levels of concern. Table 3 presents some of these criteria. Complete documentation for this approach can be provided in the near future.

Sediment criteria derived by this sediment-to-fish approach are comparable to those derived by the EP method. For PCB the EP criterion in Table 2 of 0.24 ug/kg may be compared to the criterion in Table 3 of 0.6 - 0.06 ug/kg because they are both 1 x 10<sup>-5</sup> cancer risk based; as can be seen the former falls within the range of the latter. Similarly the PCB wildlife based criterion

remediation is practicable and feasible. For the sediments which cannot feasibly be treated or removed, further risk management evaluations may be warranted.

The magnitude of the effect caused by a contaminated sediment will depend on the magnitude of the exceedance of the criterion. Where the criterion is based on direct toxicity to aquatic life or indirect toxicity to wildlife via consumption of contaminated fish, a slight exceedance of a criterion would be expected to cause only a slight adverse effect. Increases in the magnitude of exceedance will cause increases in the magnitude of the effects. It may be useful to attempt to quantify the magnitude of predicted adverse impacts where remediation of sediments is expected to be difficult or costly to accomplish. This may be accomplished by desk-top investigation into the basis for a criterion, or site-specific sediment criterion and/or bivaccumulation tests. Decisions about the volume of sediment to remediate may then be made considering predicted residual effects from any unremediated sediments. Where the sediment criterion is based on human exposure to a carcinogen in fish, shellfish or other edible biota, exceedance of the sediment criterion would be predicted to cause a greater than 10-6 incremental cancer risk for humans. The actual risk that society is willing to accept may be factored into cleanup decisions. Presumably, once it is predicted that an FDA or EPA tolerance or action level would be exceeded. then cleanup would have to be made to the associated sediment concentration. As with the fish and wildlife toxicity based sediment criteria. site-specific bioaccumulation tests could be conducted to verify that sediments cause the predicted level of biota residues.

that exceedance of a criterion by about ten times will be associated with onset of impacts. For sediment criteria based on bioaccumulation this would mean that there is a high degree of confidence that at ten times the criteria aquatic animals exposed to the sediments would accumulate contaminants to levels that would exceed human health or wildlife related tolerances, action levels. fish flesh criteria etc. For sediment criteria based on toxicity to aquatic life this would mean that there is a high degree of confidence that sediments with contaminants at ten times the criteria would exhibit chronic toxicity to benthic animals. Onset of chronic toxicity may be difficult to detect in natural systems. Since water quality criteria to prevent acute toxicity are generally about ten times the chronic criteria. it may be generalized that for sediments with contaminants at 100 times (factors of 10 for uncertainty and acute:chronic ratios, respectively) toxicity based criteria there is a high degree of confidence that there will be onset of acute toxicity to benthic animals. Such effects would likely be evident as an impacted or depauperate benthic community.

It must also be noted that due to uncertainty about actual partitioning of a chemical between water and sediments there is the possibility that the sediment criteria are somewhat underprotective rather than overprotective.

Uncertainty of the metals criteria can not be characterized so simply. The criteria are based on empirical evidence from both lab and field studies without an attempt to normalize for any toxicity controlling factors in the sediment. Variability of toxicity of metals in any given sediment is evident from Table 4 which provides criteria, all of which are lower than the upper 95% confidence limit of pre-industrial metal concentrations in Great Lake

bioaccumulation and toxicity, and based on quantity of exceedance would impacts be expected to be isolated or widespread through the ecosystem of concern.

- 2. Compare sediment concentrations with unimpacted, local background concentrations: consider significance of criteria exceedances in light of background concentrations, in particular, for naturally occurring substances such as metals.
- 3. If sediment concentrations are less than criteria, remediation is not necessary to ensure compliance with standards.
- 4. If sediments exceed criteria, and especially if exceedance is widespread in the ecosystem of concern, a number of steps can be taken to verify the need for remediation.
  - investigation or sediment remediation is not necessary if it can be demonstrated that the source of sediment contamination will be eliminated and the sediment will cleanse itself within one year.

    For these chemicals the greatest value of sediment criteria may be for document it on of a significant release.
  - b. For sediments exceeding aquatic toxicity based criteria, including metals:
    - i. conduct assessments of ecological communities to estimate

- d. For sediments exceeding wildlife risk bioaccumulation based criteria:
  - i. identify biota which consume aquatic life and study them to determine whether they have been impaired by contaminants in their food supply.
  - ii. collect sediment samples. Cest with wildlife food supply and measure residues: compare with residue levels known to be toxic to wildlife.
- 5. When sediment concentrations and criteria are less than detection.

  ecological assessments are necessary to directly measure toxicity of
  sediments or residues in biota if it is suspected that sediments were
  contaminated by releases.
  - a. generally, it is expected that low level impacts would be associated with presence of contaminants in sediments below detection.
  - b. however, if impacts are found to be of unacceptable magnitude, then iterative ecological assessments may be necessary to quantify the volume of sediments to remediate.
- III. Division of Fish and Wildlife sediment criteria contact is Arthur J. Newell. Room 530, 50 Wolf Road. Albany. New York 12233-4756, 518/457-1769.
- IV. Detailed Criteria for Contaminants, see tables and appendix.

TABLE 1

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Sediment Criteria, Derived for a Variety of Environmental Protection Objectives. (Sediment criteria are normalized to organic carbon (OC) content as ug/gOC; to obtain criteria for bulk sediments in ug/Kg multiply criteria by fraction OC; i.e. it multiply by 10, for 2% OC by 20, etc.) . . . . . . .

· ·-			Aquatic Toxicity Basis	icity basis	Human Health	Human Health Residue Basis	Wildlife Re	aidus Basis
Bubstance	3 7 8	or Marine	AMQS/GV/C+ ug/1	Sediment Criterion ug/goc	AMQS/GV/C ug/1	Sediment Criterion ug/g0C	AMQS/GV/C Criterion ug/goc	Sediment Criterion ut/800
Acenapthene	4.33	۵.		730**				
Anilene		u I		0.0662**				
Aldrin and Dieldrin	8.0	P6H F6H	0.084+	<b>₹</b> .	0.001++	0 . U 0 . 001	0.0077+	0 33
Az inghosne thy i	2.4	4 Z	0.005++	0.001				
Azobenzene	3.82	H.C.M			0.07+	0.5		
Benzene .	2.0	FAM .			<b>‡</b>	. 0 . 6	5	
benzo(a)pyrene med some other PANO	90.9	% <b>2</b>			0.0012++	1.3	1/10/12	
benzidene	1.4	•	0.1+	0.003				
Bis(2-chloro- ethyl) ether	1.73	PLH			0.2	0.01		
Bis(2-ethylhenyl) phthelote	5.3	•	9.6	119.7				
Carbofuran	2.26	۵.	**	0.3				

Table 1 (continued)

			Aquetic Toxicity Besis	icity Besis	Human Health	Human Health Residue Basis		Wildlife Residue Basis
<del></del>	•	Preshvatèr		Sediment		Sediment		Sediment.
Substance	3 7 5	or Marine P or M	AMQS/GV/C+	ug/goc	AWGS/GV/C	ug/goc	ANGS/GV/C	Criterios ug/goc
Endosul fan	3.55	a I	0.009	0.03				
Endr in	2.6	A T E	0.002++	0.8 1.04** 0.215**		0.0532**	0.0019+	<b>.</b>
Ethyl Parathion	2.1	<u>a</u>		0.081**				
Heptachlor & Heptachlor repoxide	•	1 . r	0.001++	0.03	0.00003+	0.0008	0.0038+	0.1
Rexachlorobenzene	6.18	FEH	<b>4</b> \$ <b>+</b>	<7568	0.0001+	0.15	• <b>800</b> · 0	12
Hexachloro- butadiene	3.74	2 4 T	0.3	5.4 1.6	•90.0	0.3	0.07+	<b>4</b> .0
Hexachloro- cyclobexanes	<b>e</b>	2 L I	0.01++	0.157** 0.06 0.03	+600.0	0.05	0.23+	1.5
Bezachlorocyclo- pentadiene	3.9	e E	0.45++	0.7				
Isodecyldiphenyl phosphate	3.4	<b>a.</b>	1.73#	+34				

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table 1 (continued)

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• 7			Aquatic Toxicity Sesis	icity Sesis	Human Health	Residue Basta	Wildlife Bacidus Bosts	
Budheltace	N N N	Preshueter or Marine Por M	AWQS/CV/C* ug/1	Sediment Criterion ug/g0C	Sediment ANQS/GV/C Criterion ug/1 ug/80C	Sediment Criterion ug/800	AWQS/GV/C	Sediment Criterion ug/80C
2,3,7,8-Tetra- chlorodibenzo- dloxia	7.0	PEN	+100.0>	<10	1X10 <sup>-6</sup> 2X10 <sup>-10</sup>	0.0 <u>1</u> 6 2x10 <sup>-</sup> 6	2X10 <sup>-8</sup> +	0.0002
1,1,22-Tetrachloro- 2.56 ethane	2.56	Per			0.7+	0.3		
Tetrachloro- ethylene	2.88	PEN			<b>±</b>	9·0		
0-Toluidine	1.4	PEN			18+	0.45		
foxephene	3.3	H73	0.005	0.01	0.009+	0.03		
trichlorobenzenes	4.26	FEM	<del>*</del>	91				
1.1.2-Trichloro- ethane	2.17	FGM			<b>‡</b>	0.59		
krichlowethylene	2.29	. PEN			11#			
friphenti phosphace 4.59	4.59	<b>a.</b>	÷	156				
_	9.0	FEN			18+	0.01		

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ANOS/GV/C = Ambient water quality standard or guidance volue in TOCS 1.1.1 or other water quality criterion. + ANGCV proposed by Division of Fish and Wildlife.

The sediment criterion for benzo(a)pyrene also applies to benz(a)anthracene, benzo(b)fluvranthene, benzo-(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and, methylbenz(a)anthracenes. These PAH huve the same TOCS 1.1.1. Buidance value as benzo(a)pyrene. se RPA proposed interin sediment criteria; taken from an RPA briefing document for the EPA Science Advisory

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TABLE 3.

Sediment Criteria Derived by the Sediment-to-fish Bloaccumulation Hethad

	Z,	PCB	~	2.3.7.8-TCDD
	Fish Residue	Sediment Criterion*,	Pish Residue	Sediment Criterion,*
	24/20	ug/kk	uk/kg	ay/an
Toletance or Advisory	2000	2000-200	0.01	0.1-0.01
10 <sup>-6</sup> Canver Risk & 1b/week fish consumption	9.0	90.0-9.0	1.4x10 <sup>-5</sup>	1.4X10 <sup>-4</sup> -1.4X10 <sup>-5</sup>
Wildlife Pish Plesh Griterion	100	100-10	0.003	0.03-0.003

\* For PCB and 2,3,7,8-TCDD, the ranges result from dividing the Fish Residue by a fish to sediment accumulation factor of 1-10 and 0.1-1, respectively.

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### APPENDIX 1

### Collection of Interstitial Water

At this time, there is not a specific recommendation for a site-specific method to collect interstitial water. It is recommended that regulated parties investigate the subject and propose to DEC a method which will provide a sample to best characterize the bioavailable metals in site-specific interstitial water. As a start, it is suggested at least four methods should be considered along with some references.

- Centrifugation (Edmunds and Bath 1976; Glesy et al. 1988; Landrum et al. 1987; Engler 1977);
- Squeezing (Reeburgh 1967; Bender et al. 1987; Kalil and Goldhaker 1973);
- 3. Suction (Knezovich and Harrison 1987); and
- 4. Equilibrium by using dialysis membrane or fritted glass sampler (Hesslin 1976; Mayer 1976; Bottomley and Bayly 1984; Pittinger et al. 1988).

Additional literature which should be considered are Carignan et al. 1985, Bray et al. 1973, Lyons et al. 1979, Word et al. 1987, and Jenne and Zachara 1987.

These suggestions and references were obtained from a draft ASTM guidance document on sediment collection, storage, characterization, and manipulation. However, this document is not yet available for circulation or reproduction.

AJN1.DOC/LC0035

### APPENDIX 2 ... ACID VOLLTILE SULFIDE Procedure Used at Manhattan College

The apparatus consists of the following vessels:

A 500-mL Erlynmeyer flask fitted with a three-hole
stopper, where the sample to be analyzed is placed.

stopper, where the sample to be analyzed is placed.

Three 250-mL Erlynmeyer flasks. Into the first is

placed 175-200 mL of pR 4 buffer (0.05M potassium hydrogen phthlate). The second and third contain 175-200 mL of a 0.1M silver nitrate solution. Each of these is fitted with a two-hole stopper.

The four flasks are connected in sequence with appropriately shaped glass and Tygon tubing. All fittings must be air tight.

A nitrogen gas line is introduced into the first vessel through one hole of the stopper. A thistle tube with a stopcock is placed in the second hole. The exit line from the first to the second vessel is placed in the third hole. The second, third and fourth stoppers contain the entry and exit lines, the entry line being below the liquid surface and the exit line, above.

Between the nitrogen tank and the first vessel, an oxygen-scrubbing system must be placed. This system consists of a vanadous chloride solution in the first scrubbing tower and the matrix of the analyte (usually seawater or freshwater) in the second tower. The solution used in the first tower is prepared in the following manner. Four grass of associus setavanadate is boiled with 50 aL of concentrated hydrochloric acid and diluted to 500 mL. solution is then transferred to the tower. Amalgamated zinc, prepared by taking about 15 grams of zinc, covering it with deionized water and adding 3 drops of concentrated hydrochloric acid before adding a small amount of mercury to complete the amalgamation, is then added to the vanadous chloride solution in the first tower. The solution should now be blue or green. When nitrogen is bubbled through it for a time it will turn purple. When the solution is exhausted, it will turn back to blue or green. It may be replenished by adding more amalgamated zinc or a few drops of concentrated hydrochloric acid.

The sample or standard to be analyzed is placed in the first vessel after the entire system has been purged with nitrogen for about an hour. The usual sample size is 10-15 grams of vet sediment. Any vater used in the transfer of the sample to the vessel must be completely descrated. The system is again purged for 5-10 minutes. Descrated 6M hydrochloric acid is now added from the thistle tube gs to achieve a final concentration in the vessel of 0.5M.

Background Soil

### COLUMBIA MILLS RI BACKGROUND SURFACE SOIL SAMPLING SUMMARY OF VALIDATED ANALYTICAL RESULTS

PARAMETER	SOIL 1	SOIL 2
A. VOLATILES (ug/kg)		
Methylene Chloride	32 B	71 B
Acetone	8 B	65 B
B. SEMIVOLATILES (ug/kg)		
2,4-Dichlorophenol	390 J	490 U
di-n-Butylphthalate	2600 B	2800 B
Butylbenzylphthalate	390 U	1300 B
bis(2–Ethylhexyl)phthalate	390 U	2500 B
<ul><li>number of unknowns –</li></ul>	- 10 -	- 20 -
C. PESTICIDES/PCBs (ug/kg)		
<b>4,4</b> '-DDE	2.8 J	18 J
). INORGANICS (mg/kg)		
Aluminum	8800 J	9880 J
Antimony	8.0 B	8.6 B
Arsenic	3.3 J	2.8 J
Barium	34.2 J	80.8 J
Beryllium	0.45 B	0.42 B
Cadmium	0.69 U	0.66
Calcium	254 J	282 J
Chromium	8.6	8.5
Cobalt	5.8 B	4.1 B
Copper	25.2 J	8.5 B
Iron Lead	12100 J	11900 J
Magnesium	8.6 J	15.9 J
Manganese	2350 J	1180 J
Mercury	313	178
Nickel	0.14 U	0.11 U
Potassium	10.5	7.6
Selenium	176 B	256 B
Silver	0.55 J	1.1 J
Sodium	0.64 UL 53.0 B	0.53 UL
Thallium	53.0 B 0.93 UR	64.5 B
Vanadium	15.5	0.78 UR
Zinc	33.9 J	19.2 45.5 J
Cyanide	1.4 U	45.5 J 1.1 U

Notes: U - indicates compound was analyzed but not detected.

- L indicates the sample quantitation limit is an estimated quantity.
- J indicates an estimated value.
- B indicates analyte was found in associated blank as well as sample.
- R indicated an unreliable result compound may or may not be present in this sample.

Ground Water/Surface Water SCGs

NYSDEC   N		DRINKING WATER	WATER	GRO	GROUND WATER	ER				SURFACE WATER	= WATER			
March   Marc	PARAMETER	40101					CLAS	3S A	CLASS	A.B.C	891	<u>a D</u>		The second secon
Complement   Com		MCL	NYSDEC MCL			NYSDEC DIS-GA	NYSDEC AWO-S	NYSDEC AWO-6	NYSDEC AWO-S	NYSDEC AWO_G		NYSDEC N	USEPA	USEPA
100							,	7	2	קאני		S-DWC	FAC-AI	FAC-CI
100-   100-	Acetone		20											
1004   1004   500   50	Benzene	S	က	0.7		0.7		0.7		9		·	1000	
100	Bromodichloromethane	100	100		20			20		)		)	100010	
The choice   S	Bromoform	100	100+		20			20						
104	Bromomethane		S					)				****		
Items	2-Butanone	·	20					<del></del>				····		
Continued   S   S   S   S   S   S   S   S   S	Carbon disulfide		20			<del></del>	_							
100+ 100+ 100+ 100+ 100+ 100+ 100+ 100	Carbon tetrachioride	···	S	Ŋ		v.		0.4		•			1000	
e         tot         100+         100	Chlorobenzene		5	LC?	2	)	00	 ;	u		Š	****	35,200L	
tine         100+         100-         100-         110- <th< td=""><td>Chloroethane</td><td></td><td>S</td><td>•</td><td>ì</td><td>•</td><td>3</td><td></td><td>n</td><td><del>-</del></td><td>20</td><td></td><td></td><td></td></th<>	Chloroethane		S	•	ì	•	3		n	<del>-</del>	20			
100+   100+	Chloroform	100	100	7		7	7			•		****		
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Orethene         7         5         50         60         7         11,600L Hollow           ethene street or proposes         5         6,007         0.07         0.07         11,600L Hollow	c-1,2-Dichloroethene		S	•	)		9			•			118,000L	20,000L
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ropropene         5         5         5         5000L         5000L </td <td>1,2-Dichloropropane</td> <td></td> <td>2</td> <td>. 2</td> <td></td> <td>•••••</td> <td></td> <td>, v</td> <td></td> <td></td> <td></td> <td></td> <td>23,000L</td> <td>1007</td>	1,2-Dichloropropane		2	. 2		•••••		, v					23,000L	1007
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tyl ketone         50         17,500L         22,000L         22,000L         22,000L         23,000L         23,000L         23,000L         23,000L         23,000L         23,000L         23,000L         23,000L         23,000L         24,000L         25,000L         25,000L <td>Ethylbenzene</td> <td></td> <td>လ</td> <td>2</td> <td>20</td> <td></td> <td></td> <td>ĸ</td> <td></td> <td></td> <td></td> <td>waa aa</td> <td>1000</td> <td>-</td>	Ethylbenzene		လ	2	20			ĸ				waa aa	1000	-
State   Stat	2-Hexanone		20		20	•		20					32,000L	
cchloroethane         5         50         930         50         5         5         5280L           cchloroethane         5         5         0.2         0.2         0.2         1         5,280L           thene         5         5         5         5         5         17,500L           roethane         5         5         5         6         10         17,500L           roethane         5         5         6         0.6         3         11         45,000L         2           roethane         5         5         5         6         0.6         3         11         45,000L         2           roethane         5         5         5         6         0.6         5         5         5         5         5         6         6         6         6         6         6         6         7	Metnyl Isobutyl kelone		20											
tchloroethane 5 5 0.2 930 50 0.2 thene 5 5 0.2 930 0.2 thene 5 5 0.7 1 1 5,280L    roethane 5 5 5 0.6 0.6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Metnylene chloride		ı, u	ស	20		;	2				*****		
thene 200 5 5 50 0.7 1 5,280L coethane 200 5 5 50 0.6 5 0.6 5 5.0 C 0.3 11 45,000L 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.1.2.2-Tetrachloroethane		n u	n u	c	0 6 6	20							
Toethane 200 5 50 50 7.50L 17,500L 200 5 50 7.50L 200L 200 5 5 7.50L 200L 200L 200L 200L 200L 200L 200L 2	Tetrachloroethene		ייי כ	o w	, c			0 0		•		*******		2,400L
roethane 200 5 5 50 6 7 17,500L	Toluene		יא נ	o un	; £			- u				<b>-</b>	5,280L	840L
roethane 5 5 0.6 0.6 3 11 45,000L	1,1,1-Trichloroethane	200	. v.	n ru	8 2			n u				*******	17,500L	
10 0.3 3 111 45,000L 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,1,2-Trichloroethane	}	, v	o un	9 9		9	n				<del></del>		
2 50 0.3 11 45,000L	Trichloroethene	ξĊ		o ur	ò	ç	ò	c					,	9,400L
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Vinyl acetate	•	20	•		2		<u> </u>		=		=	45,000L	21,900L
ა ა ა ა ა ა ა ა	Vinyl chloride	8	~	8		C.		C		<u> </u>				
50 50	m-Xylene		ις.	ß		<u></u>		, , , ,		•				
5 5 50	o-Xylene		S	S				מו כ		<del></del>				_
20	p-Xylene		လ	S.				22				*****		
	Aylenes, total				20			<u>-</u>						

### Updated 30-Oct-91

	DRINKING WATER	WATER	GROUN	JUND WATER	TER			Š	URFACE	SURFACE WATER			
PARAMETER	USEPA	NYSDEC	NYSDEC	0	NYSDEC	CLASS A NYSDEC NY	SDEC	CLASS A, B, C NYSDEC NYSD	A.B.C NYSDEC	CLASS D NYSDEC NYSDEC		HISEDA HEEDA	ICCDA
SE JULY JONINGS	MCL	J W	GA-S	GA-G	DIS-GA	AWQ-S	AWQ-G		AWQ-G		******		FACTOT
Acenaphthene		50		ຂ		ક							5
Acthorec		20		ì		2					-	1,700L	520L
Anuitacene		20		20			20						
Benzola acid	******	20		0			•				•••••		
Benzo(a)pyrene		200	C	0.005	Ş		0.005		1		******		
Benzo(b)fluoranthene		20	2	0.005	2		0.002		0.0012	0.0012	12		
Benzo(ghi)perylene		20			*****		-				*******		
Benzyl alcohol		200		0.005			0.005				******		-
Benzyl butyl phthalate		200		0.50					<del></del>		<u> </u>		
4-Bromophenylphenyl ether		20		3			2						
Di-n-butyl phthalate		20	20		770		20				******		
his/2-Chloroethown mothage		20			<del></del>						×		
bis(2-Chloroethyl) ether			-		•								
bis(2-Chloroisopropyl)ether		) LC	?		<u> </u>		0.03				wayna.		
2-Chloronaphthalene		50	S	10		Ç							
2-Chlorophenol		20	•	?		2							
4-Chlorophenylphenyl ether		5			••••								
Charge a-metry phenol		20											
Dibenzofuran		2 2		0.005			0.005						
Dibenzo(a,h)anthracene		200											
Dibromomethane		2 40											
1,2-Dichlorobenzene		, v	4.7		4.7			ч		ć			
1,3-Dichlorobenzene	ļ	လ	5			50		വര		2 6	- 1		763L
1,4-Dichlorobenzene	75	٠ د	4.7		4.7	30		o ro		20		1.120	763L
2.4-Dichlorophenol		2 2	•	Ġ		,				}	-		
Diethyl phthalate		20 00	-			0.3	(	1.0		1.0	2,020L	201	365L
2,4-Dimethyl phenol		200		6	*****		20						
Dimethyl phthalate		200		20		50					2,120L	SOL	
2.4-Unitrophenol		20			<del></del>	•							
2.6-Dinitrotoluene		S 2	t		•								1080
bis(2-Ethylhexyl) phthalate		2 6	ဂ င္မ	0.07	5		0.07	i			 	330L	230L
Fluoranthene		200	3	20	3 3		4 0	9.0					
riuorene		20		20			200				3,980L	전 :	

	USEPA	FAC-CT		9.3L	3.2L	240L								.000	<b>9</b> 20 <b>L</b>				· ·	1501	1306			(	 ဗ် ဗ	-	Z,560L				3/0F	
	USEPA	FAC-AI		30F	7000	300F	117 0001	1000°						0	Z,3UUL			0	Z,,000L	730F	Z30L			ć	d N Z	7	I U, ZUUL					
SURFACE WATER	S	AWG-S AWG-G		Ç		ņ f																		•	2	C	9	C	2		*****	
	CLASS A, B, C NYSDEC NYSDEC			·	2.50	,																		~	ż	ď	9	ď	,			
	NYSDEC NYSDEC NY		000	0.02	0	:	0.005	20						ç	2			S	3		C <sub>2</sub>	3	05	-		-	. 05	S =	?		ıc	, <b>(</b> 2
TER	NYSDEC DIS-GA	5	70.0	C				••••		••••	****						••••		•		•	·····		7	i	*****						
UND WATER	NYSDEC GA-G			0.5	1.0		0.005	50						10	•			30	<b>)</b>		20		20	;	50	) }	20	101			20 <u>i</u>	<b>20i</b>
GROUND WATER	NYSDEC I		ر عد 0	က က	S													S						-		-		ß			Ŋ	S
WATER	NYSDEC MCL		ď	) W	50	2	20	20	S	20	20	20	20	20	20	50	20	S	20	20	20	20	20	ທ	20	20	20	S	S	S	S	2
DRINKING WATER	USEPA																							<b>***</b>								
	PARAMETER	SEMIVOLATILES (cont)	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methyl-4,6-dinitrophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Methyl tert butyl ether	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodiphenylamine	N-Nitrosodi-n-propylamine	Di-n-octyl phthalate	Pentachlorophenol	Phenanthrene	Phenoi	Pyrene	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene

	DRINKING WATER	3 WATER	GROUI	GROUND WATER	rer				SURFAC	SURFACE WATER			
PARAMETER	USEPA	NYSDEC	NYSDEC	NYSDEC	NYSDEC	CLAS NYSDEC	CLASS A  DEC NYSDEC NY	CLASS A, B, C NYSDEC NYSDEC	CLASS A, B, C SDEC NYSDEC	CLASS D NYSDEC NYSDEC	SS D NYSDEC	CLASS D DEC NYSDEC LISEPA LISEBA	IISEDA
BEGINIOEG	MCL	MCL	GA-S	GA-G	DIS-GA	AWQ-S	AWQ-G	AWQ-S	AWQ-G	AWQ-S	AWQ-G	FAC-AT	FAC-CT
רבייוריי		•										)	5
Aldicarb	m					7							
Aldicarb Sulfoxide	4				•								
Aldicarb sulfone	8												
Aldrin		20	Q		QN		0000	5		0			
delta-BHC		20			)		0.00	3		0.00		3.0	
beta-BHC	*******	20			•							100L	-
alpha-BHC	••••	50										100	
alpha-Chlordane		50	0		Č				0			100L	,
gamma-Chlordane	-	20			5 6		0.00		0.002		0.005	2.4	0.0043
4,4'-DDD		02	2		5 2	3	0.02		0.002	,	0.005	2.4	0.0043
4,4'-DDE		20	2 2		5 5	5 6		0.00	<del></del>	0.001			
4,4'-DDT		30	2 2		2 2	5.0		0.001		0.001		1,050L	
Dieldrin		3 6	2 2		2 2	0.0		0.001		0.001	****		0.001
Endosulfan I		200	2		5		0.0009	0.001		0.001	•	2.5	0.0019
Endosultan II		200			777			0.00		0.22		0.25	0.056
Endosulfan sulfate		20			•			600.0		0.22		0.22	0.056
Endrin	0.5	0.2	9		9	0		0000		0		(	
Endrin ketone	onian	20			)	, ,		0.002	_	0.002	-	0.18	0.0023
Heptachlor		20	Q		Q.	0.00		0.00		000		, C	000
Heptachior epoxide		20	Q		•	0.00	•	0.001		000	•	0.52	0.0038
Lindane	4	4	9		Q.		0.02	0.01		3		Ċ	0
Tovachore	20,	20	ଞ		ક્ષ	જ		0.03	<del></del>	ı	*****	7.0	0 0
PCBs total	ი	Ω +	OZ Z		Q Z		0.01	0.005		1.6		0.73	0.0002
PCB-1016		-	Ċ		,	•						2.0	0.014
PCB-1221		····	- <b>-</b>			0.01		0.001	-	0.001	••••		
PCB-1232	•	-	- <b>-</b>			0.01		0.001		0.001	*****		
PCB-1242		•	- ·			0.0		0.001		0.001	****		
PCB-1248			- - -		5.0	0.0		0.001		0.001			
PCB-1254		<del></del>	- - -			0.01		0.001		0.001			
PCB-1260			- <b>,</b>		0.0	0.01		0.001	<u> </u>	0.001			
3			5		- O	0.01		0.001		0.001			-

PAGE 4 OF 6

	DRINKING	3 (	GROU	UND WATER	TER			SLIBEAC	SUBFACE WATED		
						A OO A			E VAIEN		
PARAMETER	USEPA	NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC NYSDEC	≥	SDEC NYSDEC	CLASS D NYSDEC NYSDEC	LISEDA	ICEDA
INOPARAICS	MCL	MCL	GA-S	GA-G	DIS-GA	AWQ-S AWQ-G		AWQ-G	AWG-S AWG-G		EAC CT
Aluminum										0-00-	2
Antimony		44.4		c	2,000		100				
Arsenic	20	20	52	9	20	50	3		7000	7000'6	1,600L
Bervline	2,000	1,000	1,000		2,000	1,000	2		pnas	درستان	_
Cadmium	Ç	Ç	Ç	က	6		3 1,100x,a			130L	5.3
Calcium	2	2	2		3	10	1.13x,a		3.92x,a	3.9x	1.1×
Chromium, total Chromium, hexavalent	20	20	20			50	207x,a		1,737x,a	1 700x	27.5
Cobalt			2		8		11a		16a	16	<u> </u>
Copper		1,000	200		1,000	200	- 5a - 11.8x.a		17 7× a	ò	 ç
Lon		Č	Č						5	Xo.	X X
Lead	50	S 22	g #		8	300	300		300		1.000
Magnesium	}	3	3	35,000	2	35 000	3.2x,a		82.6x,a	82X	3.8
Manganese		300	300	2001	9	300					
Mercury	7	2	8		4	8 0		0.2	60	Ċ	-
Potassium		<del></del>			2,000		95.6x,a	!	1,844x,a	1.400x	160x
Selenium	10	10	9		Ç	Ç	,				
Silver	50	20	20		8	20 20	1.0a		,	560	35
Thailing			20,000			}	- 5		4. IX,a	4.1×	0.12
Vanadium				4		4	89 8		20a	1,400L	40r
Zinc		2,000	300		2,000	000	14a		190a		
Chloride		250,000	250,000		500,000	250,000	200		321x,a	120x	10×
Fluoride	000	5	9 5		8	100	5.2f		22f	22	2
Foaming agents	2001	د,دس	5 5 5 6		000,	1,500	2119x		10,597x	i	i
Nitrate (as N)	10,000	10,000	10,000		20,000	10,000					
Phenois			•		15,000		···	····		See Note 16	
Sulfate		250,000	250 000		200	1	1.0		1.0		
Sulfide (as hydrogen sulfide)		3	200,004	20	200	000,002					
					2001	30	7.0				~

### NOTES: 1. All values in ug/l.

- + = Limit for total trihalomethanes
- p Limit is pH dependent, pH 7.8 used

- x Limit is dependent on hardness, 100 mg/l used
- i Limit applies to the sum of the isomers
  L Insufficient data to develop criteria. Value presented is the L.O.E.L Lowest Observed Effect Level.

  - a Limit applies to the acid-soluble form d Limit applies to the dissolved form

    - f Limit applies to free Cyanide
- ( ) Proposed limit
- Limit applies to ionic silver
- The basis for the standard or guidance value of Class A waters is for the protection of human health The basis for the standard or guidance value for Class A, B, C, and D waters is for protection of aquatic life
  - Beryllium NYSDEC AWQ- S = 11 if hardness less than or equal to 75 mg/l
    - = 1100 if hardness is greater than 75 mg/l
- Oil & Grease USEPA FAC-AT & CT Limit varies see reference document Chromium, Total - USEPA FAC-AT & CT - Trivalent Chromium Limits Chromium, Total
   Oil & Grease - U
   Water classes:
  - A Drinking water source

  - A,B,C Fishing and fish propagation
    - D Fishing and fish survival

APPENDIX B
Preliminary Screening
Summary Tables

24-Apr-92

# COLUMBIA MILLS PRELIMINARY SCREENING RESULTS REMEDIATION OF DRUM DISPOSAL AREA FILL MATERIAL METALS AND SEMI-VOLATILE ORGANICS

					Effectiveness					Impleme	Implementability		TOTAL
Ramadia Altamatica	Protection of Community -Short Term	Protection of Environmental Community Impacts -Short Term -Short Term	Protection of Environmental Implementation P Community Impacts Time -Short Term -Short Term	ermanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Adequacy and (Max. = 25) Feasibility Reliability	TOTAL (Max.= 25)	Technical Feasibility	Ag	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	6		6			,							
Institutional-Access Restrictions		•	۷ (	<b>o</b> (	5	~	3	=	89	8	e -	13	24
Drain Dondo & December Constitute	•	*	7	0	•	2	-	13	80	2	ო	13	28
Can in Place	4	m	8	0	4	7		18	00	-	က	12	28
Drain Ponds & Reroute Creek/Lime *	4	က	8	ĸ	<b>4</b> /N		c		r	,	,		
Stabilization/Cap in Place		-	<u> </u>		<u> </u>	+	V	3	_	-	m	=	
Drain Ponds & Reroute Creek/Excavate/	6	n	~	c	•	•	•	,					
Cap in Railroad Right of Way			ı	,	<u> </u>	<b>y</b>	-	<u> </u>	`	<del>-</del>	က	=	26
Drain Ponds & Reroute Creek/Excavate/	m	က	- 2	LC.	<b>4</b> /N		c	Ç	L	,	•		
Stabalize/Cap in Railroad Right of Way			- <u></u>	)		•	v ·	<u>.</u>	n	_	m	<b>o</b>	28
Drain Ponds & Reroute Creek/Excavate/	ო	6	-	0	7		•	;	r	•			
Dispose in On-site Landfill					•	,	-	<u>+</u>		-	m	=	52
Drain Ponds & Reroute Creek/Excavate/ *	_	n	8	o	*	•				,			
Dispose in Off-site Landfill		-	<u> </u>	)	•	•	7	9	<b>x</b> 0	<b>-</b>	23	01	28

 $<sup>^{\</sup>bullet}$  – Indicates remedial atternative carried through to detailed evaluation. N/A – Not Applicable

:

### PRELIMINARY SCREENING RESULTS REMEDIATION OF TEST PIT AREA 3 SOILS VOLATILE ORGANICS COLUMBIA MILLS

				Effecti	Effectiveness					Impleme	Implementability		TOTAL
	Protection of	Environmental	Protection of Environmental Implementation	Permanence	Lifetime	Waste Left	Control	TOTAL	Technical	TOTAL Technical Administrative Availability of TOTAL (Max = 40)	Availability of	TOTAL	(Max.= 40)
	Community Impacts	Impacts	Time	ō	5	on Site	on Site Adequacy and (Max. = 25) Feasibility Feasibility	(Max.= 25)	Feasibility	Feasibility	Service & (Max = 15)	(Max = 15)	
	-Short Term	-Short Term -Short Term		Alternative	Alternative Remedial Action		Reliability	·		•	Materials	()	
Remedial Alternative													
No Action *	0	0	2	0	0	2	0	4	œ	6	6	13	17
Vertical Barrier-Slurry Wall	4	0	2	0	4	8	0	. 2	· ·	-	. "		
Excavation/On-eite Disposal	0	4	2	•	4		· <del>-</del>	i t	o uc	- c	, «	0 0	7 6
Excavation/Off-site Disposal	0	ĸ	•	_	•	•	. •	ţ	) q	, c	,		- 6
Vapor Extraction/Ground Water Extraction *	, et	7		, w	•		7 -	- 6	0 6	5 •	n (	<b>D</b> (	<b>?</b> ;
Bioremediation (In-Situ)	0	4	1 8	) vc	<b>∀</b> ×	7	7	27 0	o «		7	7 5	\$ 8
Soil Washing (In-Situ) *	•	n	8	· s	<b>√</b> /2	- 4	7	9 9	- ec		2 60	2 5	87 86
Excavation/Spread Out (Aerate)	0	8	0	9	V/N	4	4	. 2	9 60	. 0	) M	- c	25.
Excavation/Low Temperature Incineration	0	8	2	v	<b>V</b> / <b>N</b>	^	C.	15	•	•	, «	, ç	2 4

 $<sup>^{\</sup>bullet}$  – Indicates remedial alternative carried through to detailed evaluation. N/A – Not Applicable

24-Apr-92

## REMEDIATION OF DRUM DISPOSAL AREA POND AND CREEK SEDIMENTS METALS AND SEMIVOLATILE ORGANICS COLUMBIA MILLS PRELIMINARY SCREENING RESULTS

				Effecti	Effectiveness					Implem	Implementability		TOTAL
	Protection of	Environmental	Protection of Environmental Implementation Permanence	Permanence	Lifetime	Waste Left	Control	TOTAL	Technical	Control TOTAL Technical Administrative Availability of TOTAL (Max = 40)	Availability of	TOTAL	(Max = 40)
	Community Impacts	Impacts	Time	jo	o	on Site	Adequacy and	(Max.= 25)	Feasibility	on Site Adequacy and (Max. = 25) Feasibility Feasibility	Service & (Max = 15)	(Max = 15)	
	-Short Term -Short Term	-Short Term		Alternative	Alternative Remedial Action		Reliability	,			Matoriale	(	
Remedial Alternative													
No Action *	4	0	2	0	0	2	5	13	@	6	3	1.2	96
Limit Access	4	0	2	0	- C	•	-	. •	0		,	2 ;	1 8
Excavation On-eita Disposal				,		,	•	b	b	<b>y</b>	7	2	22
	<del>-</del>	?	7	<b>&gt;</b>	4	84	<del>-</del>	9	7	_	8	=	27
Excavation/Off-este Disposal "	-	m	2	0	4	4	4	82	6	0	6	12	S
Excavation/Treatment/On-site Disposal *	4	6	8	40	<b>∀</b> N	7	6	20	¥	•	•		3 8
Excavation/Treatment/Off-site Disposal *	-	e	2	Y.	V/N	4	1 4	2 0	) (C	- 6	2 6	n c	2 2
Excavation/Lime Stabilization/Cap in	4	က	8	·co	<b>∀</b> N	. 4		2 6	2 1	•	2 0	P :	87 6
Railroad Right of Way *			ı			•	1	3	•	-	?	=	7

 $^{\bullet}$  – Indicates remedial alternative carried through to detailed evaluation. N/A – Not Applicable

### file:DDASCREEN.WK1

# COLUMBIA MILLS PRELIMINARY SCREENING RESULTS REMEDIATION OF SHALLOW GROUND WATER IN DRUM DISPOSAL AREA (Between Ponds 1 & 3) METALS

				Effecti	Effectiveness					Impleme	Implementability		TOTAL
	Protection of	Environmental	Protection of Environmental Implementation	Permanence	Lifetime	Wasteloff	Control	TOTAL	Tochnical	Waste of Control TOTAL Technical Administration of TOTAL Ass.	Avoilability	TOTAL	
						200	5	2	20111122	ACITIES SERVE	Availability of	10 AL	(Max.≃ 40)
	Community Impacts	Impacts	Time	jo	jo	on Site	Adequacy and	(Max. = 25)	Feasibility	on Site Adequacy and (Max.= 25) Feasibility Feasibility Service & (Max = 15)	Service &	(Max = 15)	
	-Short Term	-Short Term -Short Term		Alternative	Alternative Remedial Action		Reliability			`	Matoriale	<u> </u>	
Remedial Alternative							•						
No Action *	4	0	2	0	0	2	5	13	8	6	6	6+	ac
Containment *	4	ო	2	0	•	. "	, c	7	) (I	4 •	,	2 9	07
Extraction/Discharge to Sapitary Sower	•	c				,	•		5	_	າ	2	24
in account of the control of the con	*	,	<b>y</b>	5	5	 	0	12	2	_	e -	6	21
Extraction/Pretreatment/	4	က	2	0	•	က	0	12	V.	c	•	α	Č
Discharge to Sanitary Sewer	-							!	)	,	•	•	7
Extraction/Treatment/	4	ო	2	0	c	ď	c	5	u	•		•	ć
Discharge to Surface Water				•	,	 )	•	3	5	-	າ	2	7.7
Divert Pond Water/Lower GW Table/	4	က	2	0	7	4	4	21	œ	-	c	Ş	ć
Discharge to Surface Water						•		;	•	-	•	7	33

NOTE:

08-Sep-91

Indicates remedial alternative carried through to detailed evaluation.

# COLUMBIA MILLS PRELIMINARY SCREENING RESULTS REMEDIATION OF SHALLOW GROUND WATER IN MAIN PLANT AREA (UST Area 1) VOLATILE ORGANICS

					Effectiveness					Implem	Implementability		TOTAL
	Community Impacts -Short Term -Short Term	Protection of Environmental Community Impacts -Short Term -Short Term	Protection of Environmental Implementation Community Impacts Time -Short Term -Short Term	-	Permanence Lifetime of Of Allernative Remedial Action	Waste Left on Site	Adequacy and (Max.= 25) Feasibility Feasibility Relativity	TOTAL (Max.= 25)	Technical Feasibility	Technical Administrative Availability of TOTAL (Max.= 40) Feasibility Feasibility Service & (Max.= 15)	Availability o	Service & (Max.= 15)	(Max.= 40
Remedial Alternative							Tollability .				Materials		
No Action *	4	0	N	0	0	8	9	51	80	04	<u>ო</u>	13	26
Containment	e	က	2	0	2	8	0	12	·C	2	<u>ო</u>		22
Extraction/Discharge to Sanitary Sewer	က	က	2	0	8	4	2	18	œ	_	en	12	28
Extraction//Pretreatment/ Diecharge to Sanitary Sewer	ಣ	4	N	0	0	က	ო	15	7	-	ო	=	56
Extraction/TreatmenU Discharge to Surface Water *	၉	4	8	0	0	69	8	4	Đ	-	e -	10	24
In-situ Treatment (Bioremediation)	3	4	2	0	0	8	~	13	60	_	er.	Ç	23

Indicates remedial alternative carried through to detailed evaluation.

# COLUMBIA MILLS PRELIMINARY SCREENING RESULTS REMEDIATION OF DEEP GROUND WATER IN MAIN PLANT AREA (B-19D Area) VOLATILE ORGANICS

				Effecti	Effectiveness					Impleme	Implementability		TOTAL
	Protection of	Environmental	Protection of Environmental Implementation Permanence	Permanence	Lifetime Waste Left Control TOTAL Technical Administrative Availability of TOTAL (Max.= 40)	Waste Left	Control	TOTAL	Technical	Administrative	Availability of	TOTAL	(Max.= 40)
	Community Impacts	Impacts	Time	jo	jo	on Site	on Site   Adequacy and (Max.= 25) Feasibility   Feasibility   Service & (Max.= 15)	(Max.= 25)	Feasibility	Feasibility	Service &	(Max.≈ 15)	•
Remedial Alternative	-Short Term	-Short Term -Short Term		Alternative	Alternative Remedial Action		Reliability			•	Materials		
No Action •	4	0	2	0	0	2	5	13	හ	2	C7	4	26
Extraction/Discharge to Sanitary Sewer •	4	n	2	0	0	4	m	16	7		, 6	5 5	2 6
					,	,	)	2	•	<b>J</b>	,	71	87
Extraction//Prefreatment/ Discharge to Sanitary Sewer	4	က	2	0	0	ო	-	13	2	0	n	80	21
							-						
Extraction/Treatment/	₹	3	2	0	0	4	-	14	S	0	8	α,	22
Cleaning to Sulface Walter													_
In-situ Treatment (Bioremediation)	4	0	-	0	0		C	9	·	C		-	
	The second of th			The second secon		•	)	2	3	>	7	-	×

Indicates remedial alternative carried through to detailed evaluation.

04-Sep-91

# COLUMBIA MILLS PRELIMINARY SCREENING RESULTS REMEDIATION OF SEWER SYSTEM SEDIMENTS SEWER SYSTEM 2A

				Effecti	Effectiveness			•		Implementability	entability		TOTAL
	Protection of Environmental Implementation Permanence	rironmental	Implementation	Permanence	Lifetime	Waste Left	Control	TOTAL	Technical	Waste Left Control TOTAL Technical Administrative Availability of TOTA!	Availability of	TOTAL	(May = 20)
	Community Impacts	Impacts	Time	Jo		on Site	Adequacy and	(Max = 25)	Feasibility	on Site Adequacy and (Max = 25) Feasibility Feasibility Service & (Max = 15)	Service &	May - 15)	(MdX. = 40
	-Short Term -Short Term	short Term		Alternative	Alternative Remedial Action		Reliability		,		Motoriolo	(C. 1	
Remedial Alternative											Materials		
No Action *	4	4	2	0	0	2	5	17	a	6	•	4.0	8
Institutional - Monitoring, Permitting	4	7	•	_				: ;	•	3 (	2	2	₹ -
Close Line in Diego .	• •		•	•	>	7	7	4	<b>**</b>	8	m	13	27
Moderation in Flace	*	4	2	•	4	8	ന	61	•	-	m	12	3
Flush Sediments/Onsite Disposal	က	n	2	•	*	8	-	15	œ	c	•	-	
Flush Sediments/Offsite Disposal *	_	8	2	•	4	4	4	. 4	0		· (	- ;	<b>.</b> 8
Flush Sediments/Treat/Cap in	e	n	2	0	_	7		2 0	• •	•	? (	7 :	₹ :
Railroad Right of Way			ľ		•	•	4	•	<b>B</b>	-	מי	2	<b>58</b>

<sup>\* -</sup> Indicates remedial atternative carried through to detailed evaluation.

## PRELIMINARY SCREENING RESULTS REMEDIATION OF SEWER SYSTEM SEDIMENTS SEWER SYSTEM 3 **COLUMBIA MILLS**

				Effecti	Effectiveness					Implem	Implementability		TOTAL
	Protection of	Environmental	Protection of Environmental Implementation Permanence	Permanence	Lifetime	Waste Left	Control	TOTAL	Technical	Administrative	TOTAL Technical Administrative Availability of TOTAL (Max = 40)	TOTAL	(Max = 40)
	Community Impacts	Impacts	Time	jo	70	on Site	on Site Adequacy and (Max.= 25) Feasibility Feasibility Service & (Max.= 15)	(Max.= 25)	Feasibility	Feasibility	Service &	(Max = 15)	? 
	-Short Term	-Short Term -Short Term		Alternative	Alternative Remedial Action	4	Reliability	,	•	•	Materials		
Remedial Alternative							•						
No Action *	4	4	2	0	0	5	5	8	8	2	6	13	33
Institutional - Monitoring, Permitting	*	4	8	0	0	S	2	17		-	) e	<u> </u>	3 8
Close Line in Place *	4	4	8	0	4	25	m	22	- cc	· <del>-</del>		2 9	3 2
Flush Sediments/Offsite Disposal/	-	n	8	0	4	16	7	9		- 6		4 ÷	5 8
Fill Trenches						)	•	?	•		•	¥ .	<del>,</del>
Flush Sediments/Onsite Disposal/	က	n	2	0	7	¥C	-	4	œ	_		;	٤
Fill Trenches			l	_ <del></del>	•	•	•	2	•	_	າ 	=	R
Flush Sediments/Treat/Cap in Railroad	n	က	8	S	¥N	2	~	8	œ	-	~	\$	ç
Right of Way						'	1	}	•	•	,	2	3

 $^{\circ}$  – Indicates remedial alternative carried through to detailed evaluation. N/A – Not Applicable

15-Aug-01

# COLUMBIA MILLS PRELIMINARY SCREENING RESULTS REMEDIATION OF SEWER SYSTEM SEDIMENTS SEWER SYSTEM 5

				Effect	Effectiveness					Impleme	Implementability		TOTAL
	Protection of	Environmental	Protection of Environmental Implementation Permanence	Permanence	Lifetime	Waste Left	Waste Left Control TOTAL Technical Administrative Availability of TOTAL (Max = 40)	TOTAL	Technical	Administrative	Availability of	TOTAL	(Max = 40)
	Community Impacts	Impacts	Time	ত	ঠ	on Site	on Site Adequacy and (Max.= 25) Feasibility Feasibility Service & (Max = 15)	(Max.= 25)	Feasibility	Feasibility	Service &	(Max = 15)	
	-Short Term	-Short Term -Short Term		Alternative	Alternative Remedial Action		Reliability	•	•		Materiale	(2:	
Remedial Alternative													
No Action *	4	4	2	0	0	2	5	8	00	6		13	22
Institutional - Monitoring	4	4	2	0	•	ur.	•	17	) CC			2 \$	3 8
Flush System/Treat Water/Cap Sludge	4	6	2	•	7	ı (c	1 6		· «	٠ -	, c	2 6	3 8
in RailRoad Right of Way/Leave			1		•	)	i	3		•	,	2	3
System in Place				_									
Flush System/Treat Water/Cap Sludge	4	8	8	•	4	v.	•	8	•	•	c	Ş	8
in RailRoad Right of Way/Close						,	1	3	•	•	,	2	3
System in Place													
Close System in Place (Fill with Concrete)*	4	*	8	0	4	5	m	22	œ	-	~	5	76
Excavate Tanks & Sediment/Cap in	4	က	8	0	4	LC.		1 8	) h		, (	7 :	5 6
Railroad Right of Wav*						)		2	•	-	,		5

<sup>\* -</sup> Indicates remedial alternative carried through to detailed evaluation.

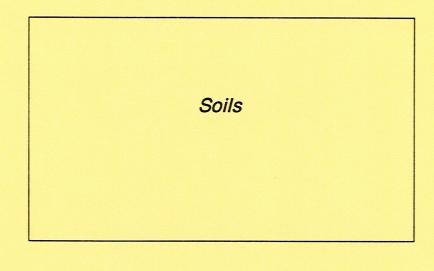
09-Oct-91

24-Apr-92

# PRELIMINARY SCREENING RESULTS REMEDIATION OF MAIN PLANT AREA DEBRIS PILE ASBESTOS COLUMBIA MILLS

			Effectiveness	/eness					Impleme	<b>Implementability</b>		TOTAL
Protection of En	nvironmental	Protection of Environmental Implementation Permanence	Permanence	Lifetime	Waste Left	Waste Left Control TOTAL Technical Administrative Availability of TOTAL (Max.= 40)	TOTAL	Technical	Administrative	Availability of	TOTAL	(Max.= 40
Community Impacts	Impacts	Time	jo	jo	on Site	on Site Adequacy and (Max. = 25) Feasibility Feasibility Service & (Max = 15)	(Max.= 25)	Feasibility	Feasibility	Service &	(Max = 15)	•
-Short Term -Short Term	Short Term		Alternative F	Alternative Remedial Action		Reliability		•		Materials		
Remedial Atternative		-										
No Action *	0	2	0	0	2	5	F	~	6	3	13	9.4
Limit Access 2	0	-	0	0				ο α			2 \$	**
Consolidate Material/Cover in Place 3	e	2	c	4	۱ ۵	· c	, 4	, 0	4 6	, (	2 ;	9 5
Excavate/Dispose of in On-site Landfill *	~		, u	4/14	1 0	4 6	2 !	0 1	<b>&gt;</b> (	2		/7
	,	7	7	<b>V</b> /2	7	7	=	`	0	m	9	27
EXCAVATE/LISPOSE OF IN OIT-SITE LANGIN . 3	3	2	S	Y/Y	4	2	22	G	0	e	12	8

APPENDIX C
Preliminary Screening
Rating Sheets



DDA sollfull -No Action

11/13

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

		Preliminary Screening	
	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes
		° Can the short-term risk be easily controlled?	Yes No
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No 🔽
•	Subtotal (maximum = 4)		/
2.	Environmental Impacts	Of Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes
,		Are the available mitigative measures reliable to minimize potential impacts?	Yes No <u></u>
	Subtotal (maximum = 4)		
	Time to implement the remedy.	• What is the required time to implement the remedy?	≤ 2yr > 2yr
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	≤ 2yr > 2yr
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes
	Subtotal (maximum = 5)		

An	alysis Factor		Basis for Evaluation During Preliminary Screening		S	core
1.	Technical Feasibility					<del></del> -
	<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.	•		3
		ii)	Somewhat difficult to construct. No uncertainties in construction.	,		2
		iii)	Very difficult to construct and/or significant uncertainties in construction.	•		1
	<ul><li>b. Reliability of technology.</li></ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.	•	<del></del>	3
		ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
+	c. Schedule of delays	i)	Unlikely			2
_'	<pre>due to technical problems.</pre>	ii)	Somewhat likely			1
	d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
	action, if necessary.	ii)	Some future remedial actions may be necessary.		$\overline{}$	1
	Subtotal (maximum = 10)					
2	. Administrative Feasibilit	<u>ty</u>				
	a. Coordination with	1)	Minimal coordination is required.			2
	other agencies.	ii)	Required coordination is normal.			1
		iii)	Extensive coordination is required.			0
	Subtotal (maximum = 2)					
3	. Availability of Services and Materials				,	
	<ul> <li>a. Availability of prospective technologies.</li> </ul>	i	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	$\frac{\checkmark}{}$	0
	- -	ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		1 0 3
						J

: '

Subtotal (maximum = 5)

3/13

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	(Haximan Score - 23)		
Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 <sup>-</sup> -
	° Can the short-term risk be easily controlled?	Yes	1 0
	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
Subtotal (maximum = 4)			
2. Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 <b>4</b>
	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
Subtotal (maximum = 4)			
<ol><li>Time to implement the remedy.</li></ol>	O What is the required time to implement the remedy?	<pre>&lt; 2yr</pre> > 2yr	1 0
	Required duration of the mitigative effort to control short-term risk.	≤ 2yr > 2yr	1 0
Subtotal (maximum = 2)			
<ol> <li>Permanence of the remedial alternative.</li> </ol>	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0
Cubachal (maudoum = E)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

#### IMPLEMENTABILITY (Maximum Score = 15)

Score Basis for Evaluation During Analysis Factor Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct No uncertainties in construction. technology. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. 3 i) Very reliable in meeting the specified b. Reliability of process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical 1 ii) Somewhat likely problems. i) No future remedial actions may be d. Need of undertaking anticipated. additional remedial action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. a. Coordination with other agencies. 1 ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of generally commercially available prospective for the site-specific application? technologies.

ii) Will more than one vendor be available to provide a competitive bid?

(

DDA Sal/All
Drawn Pends & Rerarte Creek/ Cap in place

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 <sup></sup> 4
			° Can the short-term risk be easily controlled?	Yes	1
			Does the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
		Subtotal (maximum = 4)			
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
<del>_</del>			Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
_ `		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	O What is the required time to implement the remedy?	< 2yr. <u>√</u> > 2yr	1 0
			Required duration of the mitigative effort to control short-term risk.	< 2yr > 2yr	1 0
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0
		Subtotal (maximum = 5)	Jes, 20 co ( 2000)		

	An	aly	rsis Factor		Basis for Evaluation During Preliminary Screening		S	icore
	1.	Te	chnical Feasibility					. 🔆
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3
				ii)	Somewhat difficult to construct. No uncertainties in construction.			2
				iii)	Very difficult to construct and/or significant uncertainties in construction.			1
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
+		c.	Schedule of delays due to technical	i)	Unlikely		$\checkmark$	2
'ســـ			problems.	ii)	Somewhat likely		<del></del>	1
		d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
			action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	btotal (maximum = 10)					
	2.	Ad	ministrative Feasibilit	¥				
		a.	Coordination with	i)	Minimal coordination is required.			2
			other agencies.	ii)	Required coordination is normal.			1
			·	iii)	Extensive coordination is required.			0
		Su	btotal (maximum = 2)					
	3.		ailability of Services of Materials					
		a.	Availability of prospective technologies.	i)		'es lo		1
				ii)		'es lo		1

DDA sollfill

Drain Ponds & Revorte Creek / Lime Stabilization / Cap in Place.

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

An	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0-
		° Can the short-term risk be easily controlled?	Yes	1 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
Ĝ,		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
•	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr. <u>/</u> 2yr. <u></u>	1 0
		Required duration of the mitigative effort to control short-term risk.	2yr. <u>/</u> 2yr. <u></u>	1 0
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

#### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. ţ. c. Schedule of delays i) Unlikely due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes

to provide a competitive bid?

#### DDA soulfill Drain Ponds & Reroute Creek / Excavate / Capin RR ROW

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Basis for Evaluation During

Analysis Factor Preliminary Screening Are there significant short-term risks 1. Protection of community during remedial actions. to the community that must be addressed? (If answer is no, go to Factor 2.) ° Can the short-term risk be easily controlled? Does the mitigative effort to control No short-term risk impact the community life-style? Subtotal (maximum = 4) • Are there significant short-term risks 2. Environmental Impacts to the environment that must be addressed? (If answer is no, go to Factor 3.) • Are the available mitigative measures reliable to minimize potential impacts? Subtotal (maximum = 4) < 2yr.
> 2yr. • What is the required time to implement 3. Time to implement the

the remedy?

Subtotal (maximum = 2)

remedy.

(

4. Permanence of the remedial alternative.

• Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

 Required duration of the mitigative effort to control short-term risk.

> Yes No

Score

Subtotal (maximum = 5)

#### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. 2 c. Schedule of delays i) Unlikely due to technical ii) Somewhat likely problems. 1 d. Need of undertaking i) No future remedial actions may be additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. 2 a. Coordination with other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration Yes a. Availability of generally commercially available prospective technologies. for the site-specific application? ii) Will more than one vendor be available to provide a competitive bid?

# DDA Soil IFII Line Drain pends & Revorte (reck/Excavate/Stabilize/Cap in RR ROW

Table 4-1

\* 1919

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

į	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening			Score
-	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No		0 - 4
			° Can the short-term risk be easily controlled?	Yes No		1
		Subbabal (manipum st A)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
		Subtotal (maximum = 4)			,	
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No		0 4
			Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3
-		Subtotal (maximum = 4)				
	3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre>≤ 2yr</pre> <pre>&gt; 2yr</pre>	: <u>~</u>	1 0
			Required duration of the mitigative effort to control short-term risk.	<pre>&lt; 2yr &gt; 2yr</pre>	: <u> </u>	1 0
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Ye No	s <u>/</u>	5 - 0
		Subtotal (maximum = 5)	Jes, yo to ractor o.,			

(

	Score
	3
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s. —	3
ed <u> </u>	2
<del></del>	2
	1
-	2
	1
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	1
	0
Yes V	1 0
Yes V	1 0

760

# Drain Ponds & Revorte Creek / Excavate / On ste Land full

#### Table 4-1

NAM >

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Ana	alysis Factor	Basis for Evaluation During Preliminary Screening	Score
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0= No 4
		° Can the short-term risk be easily controlled?	Yes 1 No 0
		Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
	Subtotal (maximum = 4)		
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
St.		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre></pre>
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	<pre> ≤ 2yr 1 &gt; 2yr 0</pre>
	Subtotal (maximum = 2)		
4.	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0
	Subtotal (maximum = 5)		

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### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

			rieiminary Scieening		-
	1.	Technical Feasibility			
		<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>		3
			<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
			iii) Very difficult to construct and/or significant uncertainties in construction.		1
-		b. Reliability of technology.	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
			<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>		2
		c. Schedule of delays	i) Unlikely		2
_'		<pre>due to technical problems.</pre>	ii) Somewhat likely		1
		d. Need of undertaking additional remedial	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	**********	2
		action, if necessary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>		1
		Subtotal (maximum = 10)			
	2.	. Administrative Feasibili	<u>sy</u>		
		a. Coordination with	i) Minimal coordination is required.		2
		other agencies.	ii) Required coordination is normal.		1
			iii) Extensive coordination is required.	-	0
		Subtotal (maximum = 2)			
	3.	. Availability of Services and Materials			
		<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration y generally commercially available N for the site-specific application?</li> </ul>	es <u>/</u>	0
			ii) Will more than one vendor be available Y to provide a competitive bid?	es _	1 0

#### DDA SOUIFIL

Drain Ponds & Revote Creek/ Excavate/ Off site Landfill -

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	(Maximum Score 20)		
Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
<ol> <li>Protection of community during remedial actions.</li> </ol>	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0
	° Can the short-term risk be easily controlled?	Yes	1 0
	Open the mitigative effort to control short-term risk impact the community life-style?	Yes	0
Subtotal (maximum = 4)			
2. Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	
	Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
Subtotal (maximum = 4)			
<ol><li>Time to implement the remedy.</li></ol>	Owner is the required time to implement the remedy?	< 2yr	1 0
	Required duration of the mitigative effort to control short-term risk.	<pre>&lt; 2yr</pre> > 2yr	1 0
Subtotal (maximum = 2)			
<ol> <li>Permanence of the remedial alternative.</li> </ol>	• Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	<u> </u>
cutectal (maximum = 5)	,		

Subtotal (maximum = 5)

#### IMPLEMENTABILITY (Maximum Score = 15)

Basis for Evaluation During Score Analysis Factor Preliminary Screening 1. Technical Feasibility 3 a. Ability to construct i) Not difficult to construct. No uncertainties in construction. technology. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. i) Very reliable in meeting the specified b. Reliability of process efficiencies or performance goals. technology. 2 ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. 2 i) Unlikely c. Schedule of delays due to technical 1 ii) Somewhat likely problems. 2 i) No future remedial actions may be d. Need of undertaking anticipated. additional remedial action, if necessary. ii) Some future remedial actions may be 1 necessary. Subtotal (maximum = 10) 2. Administrative Feasibility 2 i) Minimal coordination is required. a. Coordination with other agencies. 1 ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials Yes i) Are technologies under consideration a. Availability of generally commercially available prospective for the site-specific application? technologies. ii) Will more than one vendor be available Yes to provide a competitive bid?

No Action

11/3

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	
			• Can the short-term risk be easily controlled?	Yes	_ 1 _ 0
			Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	_ 0 _ 2
		Subtotal (maximum = 4)			,
	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4
Ą			Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	<b>∠</b> 3 0
٠,		Subtotal (maximum = 4)			
	3.	. Time to implement the remedy.	Owner with the required time to implement the remedy?	<pre>&lt; 2yr &gt; 2yr</pre>	1 0
			Required duration of the mitigative effort to control short-term risk.	<pre>&lt; 2yr</pre> > 2yr	_ 1 0
		Subtotal (maximum = 2)			
	4	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes _ No _	<u></u>
		Cubbatal (maximum = 5)	, J = 0   1   1   1   1   1   1   1   1   1		

Subtotal (maximum = 5)

(

				(1.2.1			
An	aly	sis Factor		Basis for Evaluation During Preliminary Screening		Sco	re
1.	Te	chnical Feasibility					•
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	_	3	
			ii)	Somewhat difficult to construct. No uncertainties in construction.	_	2	
			iii)	Very difficult to construct and/or significant uncertainties in construction.	-	1	
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	-	3	,
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	•	<u> </u>	<u>}</u>
1	С.	. Schedule of delays	i)	Unlikely		<u> </u>	2
		<pre>due to technical problems.</pre>	ii)	Somewhat likely			1
	d.	. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
		action, if necessary.	ii)	Some future remedial actions may be necessary.			1
	S	ubtotal (maximum = 10)					
2	. <u>A</u>	dministrative Feasibili	<u>ty</u>				
	a	. Coordination with	<b>1</b> )	Minimal coordination is required.			2
		other agencies.	ii	Required coordination is normal.			1
			iii	) Extensive coordination is required.			C
	S	ubtotal (maximum = 2)					
3		vailability of Services and Materials				/	
	8	<ul> <li>Availability of prospective technologies.</li> </ul>	i	) Are technologies under consideration generally commercially available for the site-specific application?	Yes No		(
			ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		;

Limit Access

8 (4)

#### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

F	∖na	lysis Factor	Basis for Evaluation During Preliminary Screening		\$	core
-	1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<b>▽</b>	0 <del>-</del> 4
			Can the short-term risk be easily controlled?	Yes No		1 0
			Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
		Subtotal (maximum = 4)			•	
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u> </u>	0 <b>4</b>
			Are the available mitigative measures reliable to minimize potential impacts?	Yes No	Z	3 0
_ '		Subtotal (maximum = 4)				
	3.	Time to implement the remedy.	Owner with the required time to implement the remedy?	< 2yr. > 2yr.	: <u> </u>	1 0
			Required duration of the mitigative effort to control short-term risk.	≤ 2yr > 2yr	· <u> </u>	0
		Subtotal (maximum = 2)				
	4.	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Ye No	s	5 0
		a (4.4.) (mardon = 5)	,• • •			

Subtotal (maximum = 5)

	Ana	alys	sis Factor		Preliminary Screening			core
	1.	Tec	chnical Feasibility					- <del>"</del> .
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	-	<u> </u>	3
				ii)	Somewhat difficult to construct. No uncertainties in construction.	-		2
				iii)	Very difficult to construct and/or significant uncertainties in construction.	-		1
٠		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	•		3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	•		2
A		c.	Schedule of delays	i)	Unlikely	,		2
(			due to technical problems.	ii)	Somewhat likely			1
		d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
			action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	ubtotal (maximum = 10)					
	2.	. <u>Ad</u>	lministrative Feasibilit	Y				
		а.	. Coordination with	1)	Minimal coordination is required.			2
			other agencies.	ii	Required coordination is normal.			1
				111	Extensive coordination is required.			0
		Sı	ubtotal (maximum = 2)					
	3		vailability of Services nd Materials					
(		a	. Availability of prospective technologies.	i	) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	$\stackrel{\checkmark}{=}$	0
				ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		0 2

11st Area 1 Hurry wall / Cappina

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

MIG 1 13 13 1 2 2 2 2 2	Ana	lysis	s Fa	ctor
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Basis for Evaluation During Preliminary Screening

Analysis ractor	Preliminary Screening	
<ol> <li>Protection of community during remedial actions.</li> </ol>	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 07
	• Can the short-term risk be easily controlled?	Yes 1 No 0
	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
Subtotal (maximum = 4)		,
2. Environmental Impacts	o Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  Such as Such a	Yes V 4
	• Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 2
Subtotal (maximum = 4)		
<ol><li>Time to implement the remedy.</li></ol>	• What is the required time to implement the remedy?	
	<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	
Subtotal (maximum = 2)		
<ol> <li>Permanence of the remedial alternative.</li> </ol>	2.1(a), (b), or (c). (If answer is	Yes 5 No 0
Subtotal (maximum = 5)	•	
	1. Protection of community during remedial actions.  Subtotal (maximum = 4)  2. Environmental Impacts  Subtotal (maximum = 4)  3. Time to implement the remedy.  Subtotal (maximum = 2)  4. Permanence of the remedial ternative.	1. Protection of community during remedial actions.  1. Protection of community during remedial alternative.  1. Protection of community during Screening  2. Are there significant short-term risk be easily controlled?  2. Can the short-term risk be easily controlled?  3. Does the mitigative effort to control short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  4. Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  4. Are there asignificant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  4. Are there asignificant short-term risks to the environment that must be addressed?  5. Are there asignificant short-term risks to the environment that must be addressed?  6. Are there significant short-term risks to the environment that must be addressed?  7. Are there asignificant short-term risks to the environment that must be addressed?  8. Are there asignificant short-term risks to the environment that must be addressed?  9. Are there asignificant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant short-term risks to the environment that must be addressed?  9. Are there significant shor

# IMPLEMENTABILITY (Maximum Score = 15)

(

	Ana <sup>°</sup>	lys	is Factor	1	Basis for Evaluation During Preliminary Screening		S-	core
	1.	Tec	hnical Feasibility					* <sup>7</sup>
	•		Ability to construct technology.		Not difficult to construct. No uncertainties in construction.	_		3
					Somewhat difficult to construct. No uncertainties in construction.	_		2
				iii)	Very difficult to construct and/or significant uncertainties in construction.	_		1
_		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	-		3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	-		2
		c.	Schedule of delays	i)	Unlikely			2
نب			due to technical problems.	ii)	Somewhat likely		$\overline{}$	1
		d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.		<del></del>	2
			action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	btotal (maximum = 10)					
	2.	Ad	ministrative Feasibilit	Y				
		a.	Coordination with	1)	Minimal coordination is required.			2
			other agencies.	ii)	Required coordination is normal.			. 1
				111)	Extensive coordination is required.			0
		Sı	ubtotal (maximum = 2)					
	3.		vailability of Services				/	
(		a	. Availability of prospective technologies.	i	Are technologies under consideration generally commercially available for the site-specific application?	Yes No		- 0
			-	ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		- 1 - 0

Executen/ on site Disposal

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

		Preliminary Screening	
	1. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0= No 4
		• Can the short-term risk be easily controlled?	Yes 1 No 2 0
		Ones the mitigative effort to control short-term risk impact the community life-style?	Yes O
	Subtotal (maximum = 4)		
	2. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
6		Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
	Subtotal (maximum = 4)		,
	<ol><li>Time to implement the remedy.</li></ol>	Owhat is the required time to implement the remedy?	
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	<pre>&lt; 2yr 1 &gt; 2yr 0</pre>
	Subtotal (maximum = 2)		
	<ol> <li>Permanence of the remedial alternative.</li> </ol>	• Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0
	Subtotal (maximum = 5)		

	Ana	ılys	sis Factor		Basis for Evaluation During Preliminary Screening		•	Score
	1.	Tec	chnical Feasibility					- ?
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	•		3
				ii)	Somewhat difficult to construct. No uncertainties in construction.	,		2
				iii)	Very difficult to construct and/or significant uncertainties in construction.	,		1
_		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
		c.	Schedule of delays	i)	Unlikely			2
			due to technical problems.	ii)	Somewhat likely		<u> </u>	1
		d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
			action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	btotal (maximum = 10)					
	2.	Ad	ministrative Feasibilit	ΞY				
		a.	Coordination with	1)	Minimal coordination is required.			. 2
			other agencies.	ii	Required coordination is normal.			. 1
				111	Extensive coordination is required.		_/	0
		Sı	ubtotal (maximum = 2)					
	3.		vailability of Services					
		a	. Availability of prospective technologies.	i	Are technologies under consideration generally commercially available for the site-specific application?	Yes No		_ 1 _ 0
			-	ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		_ 1 - (
								A

1:5 Area | Excavation / Off site Disposal

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

10)

Analysis Factor

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Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	<ul> <li>Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)</li> <li>\$\text{O}_{OS}\lambda\$ \$\text{O}_OC \text{In } alp \text{O}_OC\$</li> <li>Can the short-term risk be easily</li> </ul>	YesYes	-(
		controlled?	No	1
		Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	
	Subtotal (maximum = 4)			
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre>     2yr     2yr</pre>	
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	≤ 2yr > 2yr	
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No <u></u>	
	Subtotal (maximum = 5)			

#### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Scor€ Preliminary Screening 1. <u>Technical Feasibility</u> a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be 1 necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes prospective generally commercially available for the site-specific application? technologies. Yes ii) Will more than one vendor be available to provide a competitive bid?

Foil Washing

22

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 <del>-</del> 4
		° Can the short-term risk be easily controlled?	Yes	1
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0
		Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?		1
		Required duration of the mitigative effort to control short-term risk.		1
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	5 0
	Subtotal (maximum = 5)	yes, go to ractor o.)		

	An	alysis Factor		Basis for Evaluation During Preliminary Screening		S	core
	1.	Technical Feasibility	·		-		
		<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.	•		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.	•		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.	•		1
		b. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	•		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	•	<u> </u>	2
F		c. Schedule of delays	i)	Unlikely	•		2
<u>C</u>		due to technical problems.	ii)	Somewhat likely	•		1
		d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.	•	<u> </u>	2
		action, if necessary.	ii)	Some future remedial actions may be necessary.	•	<del></del>	1
		Subtotal (maximum = 10)					
	2.	Administrative Feasibility	Y				
		a. Coordination with	1)	Minimal coordination is required.			2
		other agencies.	ii)	Required coordination is normal.			1
			111)	Extensive coordination is required.		-	0
		Subtotal (maximum = 2)					
	3.	Availability of Services and Materials					
(		<ul> <li>a. Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration yegenerally commercially available No for the site-specific application?			0
			ii)	Will more than one vendor be available to provide a competitive bid?		<u> </u>	100
							<i></i>

UST Area 1 Sods Vapor Extraction

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Basis for Evaluation During Score Analysis Factor Preliminary Screening Are there significant short-term risks 1. Protection of community Yes during remedial actions. to the community that must be addressed? (If answer is no, go to Factor 2.) ° Can the short-term risk be easily controlled? Open Does the mitigative effort to control short-term risk impact the community life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks to the environment that must be No addressed? (If answer is no, go to Factor 3.) O Are the available mitigative measures Yes reliable to minimize potential impacts? No Subtotal (maximum = 4) ≤ 2yr. \_\_\_\_
> 2yr. \_\_\_\_ What is the required time to implement 3. Time to implement the the remedy? remedy. ≤ 2yr. \_\_\_\_
> 2yr. \_\_\_\_ Required duration of the mitigative

Subtotal (maximum = 2)

7

4. Permanence of the remedial alternative.

Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

effort to control short-term risk.

Subtotal (maximum = 5)

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

# Basis for Evaluation During Preliminary Screening

							<del></del> _	
1.	Te	chnical Feasibility						
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		7	3	
			ii)	Somewhat difficult to construct. No uncertainties in construction.			2	
			iii)	Very difficult to construct and/or significant uncertainties in construction.			1	
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3	
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2	
	с.	Schedule of delays due to technical problems.	i)	Unlikely			2	
			ii)	Somewhat likely			1	
	d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2	
		action, if necessary.	ii)	Some future remedial actions may be necessary.			1	
	Su	btotal (maximum = 10)						
2.	Administrative Feasibility							
	a.	. Coordination with other agencies.	i)	Minimal coordination is required.			2	
			ii)	Required coordination is normal.			1	
			iii)	Extensive coordination is required.			0	
	Su	btotal (maximum = 2)						
3.		vailability of Services od Materials						
	a.	Availability of prospective technologies.	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	<u> </u>	1	
			ii)	Will more than one vendor be available to provide a competitive bid?	Yes No		1	

Test Pit 3 Area VOCS
No Action

Table 4-1

4 13 ,

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

			(Maximum Score = 25)			
	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening	Score		
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	<u>/</u> 0 <sup>-1</sup>		
			° Can the short-term risk be easily controlled? Yes No	1 0		
		Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community life-style?	0 2		
-	2.	Environmental Impacts	O Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to Factor 3.)	0 4		
7			O Are the available mitigative measures Yes reliable to minimize potential impacts? No	<b>→</b> 3 0		
		Subtotal (maximum = 4)				
	3.	Time to implement the remedy.	<pre>o What is the required time to implement</pre>	1 0		
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> <li>2yr.</li> </ul>	1 0		
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)</li> </ul>	5 0		
		Cubtatal (mavinum = E)	.3-2, 30 00 . 2000. 0./			

Subtotal (maximum = 5)

	An.	alysis factor		Preliminary Screening		S	core		
	1.	. Technical Feasibility							
		<ul> <li>Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.			3		
			ii)	Somewhat difficult to construct. No uncertainties in construction.		_	2		
			iii)	Very difficult to construct and/or significant uncertainties in construction.			1		
		b. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		—	3		
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		<u> </u>	2		
7		c. Schedule of delays due to technical	i)	Unlikely			2		
'س		problems.	ii)	Somewhat likely			1		
		<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i)	No future remedial actions may be anticipated.			2		
		action, it necessary.	11)	Some future remedial actions may be necessary.			1		
		Subtotal (maximum = 10)							
	2.	Administrative Feasibilit	Y						
		a. Coordination with	1)	Minimal coordination is required.			2		
		other agencies.	ii)	Required coordination is normal.			1		
			111)	Extensive coordination is required.			0		
		Subtotal (maximum = 2)							
	3.	Availability of Services and Materials							
		<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	<u> </u>	0		
			11)	Will more than one vendor be available to provide a competitive bid?	Yes No		1 0 <sub>t</sub>		

Test Rt 3 Area: VOCs Vertical Barners / Slurry Walls

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

EVENESS

Analysis Factor

Basis for Evaluation During Preliminary Screening

Fremmary Screening						
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0=			
		° Can the short-term risk be easily controlled?	Yes 1 No 0			
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2			
2.		Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4			
	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0			
3.	Time to implement the remedy.	•	< 2yr.			
		Required duration of the mitigative effort to control short-term risk.	≤ 2yr.			
	Subtotal (maximum = 2)					
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0			
	Subtotal (maximum = 5)	, <b>363, 30 00</b> (2000)				
	2	Subtotal (maximum = 4)  2. Environmental Impacts  Subtotal (maximum = 4)  3. Time to implement the remedy.  Subtotal (maximum = 2)  4. Permanence of the remedial alternative.	1. Protection of community during remedial actions.  2. Can the short-term risk be easily controlled?  3. Does the mitigative effort to control short-term risk impact the community life-style?  4. Environmental Impacts  5. Are there significant short-term risk be easily controlled?  6. Are there significant short-term risk impact the community life-style?  7. Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  8. Are the available mitigative measures reliable to minimize potential impacts?  9. What is the required time to implement the remedy.  9. Required duration of the mitigative effort to control short-term risk.  9. Subtotal (maximum = 2)  10. Permanence of the remedial alternative.  11. Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  12. Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 6.)			

	Ana	al ys	sis Factor		Basis for Evaluation During Preliminary Screening		\$	core
	1.	Tec	chnical Feasibility					
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3
				ii)	Somewhat difficult to construct. No uncertainties in construction.			2
				iii)	Very difficult to construct and/or significant uncertainties in construction.		<u> </u>	1
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		<del></del>	3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
7		c.	Schedule of delays	i)	Unlikely			2
_'			due to technical problems.	ii)	Somewhat likely			1
		d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
			action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	btotal (maximum = 10)					
	2.	Ad	ministrative Feasibilit	Y				
		<ul> <li>a. Coordination with other agencies.</li> </ul>		1)	Minimal coordination is required.			2
			other agencies.	11)	Required coordination is normal.			1
				111)	Extensive coordination is required.			0
		Su	btotal (maximum = 2)					
	3.		ailability of Services d Materials					
		a.	Availability of prospective technologies.	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	<u> </u>	1
				11)	Will more than one vendor be available to provide a competitive bid?	Y <b>e</b> s No	<u> </u>	1 0

Test Pet 3 Area VOCS Excavation /on-site disposal

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)



Analysis Factor

Basis for Evaluation During Preliminary Screening

		Preliminary Screening	
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0= No 4
		Can the short-term risk be easily controlled?	Yes 1 No 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
2. -	. Environmental Impacts	Of Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
<b>3</b>		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
` ب	Subtotal (maximum = 4)		
3	. Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre> &lt; 2yr 1 &gt; 2yr 0</pre>
		Required duration of the mitigative effort to control short-term risk.	<pre></pre>
	Subtotal (maximum = 2)		
4	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0
	Subtotal (maximum = 5)	.J	

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### IMPLEMENTABILITY (Maximum Score = 15)

Score Basis for Evaluation During Analysis Factor Preliminary Screening 1. Technical Feasibility 3 i) Not difficult to construct. a. Ability to construct technology. No uncertainties in construction. 2 ii) Somewhat difficult to construct. No uncertainties in construction.  $\sqrt{\phantom{a}}$  1 iii) Very difficult to construct and/or significant uncertainties in construction. 3 b. Reliability of i) Very reliable in meeting the specified technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical 1 ii) Somewhat likely problems. 2 d. Need of undertaking i) No future remedial actions may be additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. 2 a. Coordination with other agencies. 1 ii) Required coordination is normal. 0 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration Yes a. Availability of prospective generally commercially available for the site-specific application? technologies. Yes ii) Will more than one vendor be available to provide a competitive bid?

Excavation off-site disposal

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

7

Analysis Factor

Basis for Evaluation During Preliminary Screening

	•	Preliminary Screening
1.	Protection of community during remedial actions.	*Are there significant short-term risks Yes 0= to the community that must be addressed? No 4  (If answer is no, go to Factor 2.)
		° Can the short-term risk be easily controlled? Yes $0$
	Subsected (manifester = 4)	O Does the mitigative effort to control short-term risk impact the community life-style?
	Subtotal (maximum = 4)	
2.	Environmental Impacts	Are there significant short-term risks Yes 0 to the environment that must be addressed? (If answer is no, go to Factor 3.)
3		<ul> <li>Are the available mitigative measures reliable to minimize potential impacts?</li> <li>No</li> </ul>
•	Subtotal (maximum = 4)	
3.	. Time to implement the remedy.	<pre>o What is the required time to implement &lt; 2yr 1 the remedy?</pre>
		<pre>Property Required duration of the mitigative effort to control short-term risk.</pre> <pre></pre>
	Subtotal (maximum = 2)	
4	. Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)</li> </ul>
	Subtotal (maximum = 5)	J. 3. 3

	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening	S (	core
	1.	Technical Feasibility			- <del>-</del> .
		<ul> <li>Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>		3
			<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
			iii) Very difficult to construct and/or significant uncertainties in construction.	<u> </u>	1
-		<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
			ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
<del>P</del>		c. Schedule of delays	i) Unlikely		2
<b>_'</b>		<pre>due to technical problems.</pre>	ii) Somewhat likely		1
		d. Need of undertaking additional remedial	<ol> <li>No future remedial actions may be anticipated.</li> </ol>		2
		action, if necessary.	ii) Some future remedial actions may be necessary.		1
		Subtotal (maximum = 10)			
	2.	. Administrative Feasibili	<u>ty</u>		
		a. Coordination with	i) Minimal coordination is required.		2
		other agencies.	ii) Required coordination is normal.		1
			iii) Extensive coordination is required.		0
		Subtotal (maximum = 2)			
	3.	- Availability of Services and Materials	<u>.</u>		
		<ul> <li>a. Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration Yes generally commercially available No for the site-specific application?		0
			ii) Will more than one vendor be available Yes to provide a competitive bid?		1 0

Test Pet 3 Arra- VOCS Vapor Extrection / Ground Linder Extraction

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

12)

Analysis Factor

### Basis for Evaluation During Preliminary Screening

•	Preliminary Screening
1. Protection of community during remedial actions.	o Are there significant short-term risks Yes 0- to the community that must be addressed? No 4 (If answer is no, go to Factor 2.)
	° Can the short-term risk be easily controlled? Yes 1
Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community life-style?
2. Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)
	<ul> <li>Are the available mitigative measures</li> <li>reliable to minimize potential impacts?</li> <li>No</li> </ul>
Subtotal (maximum = 4)	
<ol><li>Time to implement the remedy.</li></ol>	<pre>o What is the required time to implement &lt; 2yr 1 the remedy?</pre>
	° Required duration of the mitigative effort to control short-term risk. $\frac{\langle 2yr. }{\rangle 2yr.}$ 0
Subtotal (maximum = 2)	
4. Permanence of the remedia alternative.	o Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)
Subtotal (maximum = 5)	,

	Ana	aly:	sis Factor		Basis for Evaluation During Preliminary Screening		So	tore
	1.	Te	chnical Feasibility				- <del></del> -	- <del>-</del> -
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	•		3
				ii)	Somewhat difficult to construct. No uncertainties in construction.	•	<del></del>	2
				iii)	Very difficult to construct and/or significant uncertainties in construction.	•		1
-		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		<u> </u>	2
宗		c.	Schedule of delays	i)	Unlikely			2
_'			<pre>due to technical problems.</pre>	ii)	Somewhat likely			1
		d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
			action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	btotal (maximum = 10)					
	2.	Ad	lministrative Feasibilit	Y				
		2.	Coordination with	1)	Minimal coordination is required.			2
			other agencies.	11)	Required coordination is normal.			1
				111)	Extensive coordination is required.		-	0
		Sı	ubtotal (maximum = 2)					
	3.		vailability of Services					
_		à	. Availability of prospective technologies.	1	Are technologies under consideration generally commercially available for the site-specific application?	Yes No		1
				ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		1 0

Test Put 3 Arra-VOCS

Bioremediation

### Table 4-1



# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 <del>-</del> 4
			Can the short-term risk be easily controlled?	Yes	
			Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
		Subtotal (maximum = 4)			
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	, O 4
7			Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
_ `		Subtotal (maximum = 4)			
	3.	. Time to implement the remedy.	What is the required time to implement the remedy?	< 2yr	
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	< 2yr	1 0
		Subtotal (maximum = 2)			_
	4.	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	

Subtotal (maximum = 5)

Ana	lysis Factor	Basis for Evaluation During Preliminary Screening			ore
1.	Technical Feasibility			-	<u>.</u>
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	-		3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	-		2
		iii) Very difficult to construct and/or significant uncertainties in construction.	-	<u> </u>	1
	b. Reliability of technology.	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	-	<del></del>	3
		ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	•		2
+	c. Schedule of delays	i) Unlikely			2
<i>;</i>	due to technical problems.	ii) Somewhat likely		<u> </u>	1
	d. Need of undertaking additional remedial	<ol> <li>No future remedial actions may be anticipated.</li> </ol>			2
	action, if necessary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>			1
	Subtotal (maximum = 10)				
2.	Administrative Feasibilit	<u>×</u>			
	a. Coordination with	i) Minimal coordination is required.			2
	other agencies.	ii) Required coordination is normal.			1
		iii) Extensive coordination is required.			0
	Subtotal (maximum = 2)				
3	Availability of Services and Materials			,	
	<ul> <li>Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No		0
		ii) Will more than one vendor be available to provide a competitive bid?	Yes No		1

Test Rt 3 Area - WCs Soil Washing

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

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	18	
	10	/
1	10/	/
	$\sim$	

Analysis Factor

Subtotal (maximum = 5)

Basis for Evaluation During Preliminary Screening

		Prefiminary Scientify		
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 <sup></sup> 4
		° Can the short-term risk be easily controlled?	Yes No	
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0
		Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	< 2yr	
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	<pre>&lt; 2yr</pre> > 2yr	1
	Subtotal (maximum = 2)		,	,
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	5 0
	Subtotal (maximum = 5)	,		

	An	nalysis Factor		Basis for Evaluation During Preliminary Screening		Score
	1.	. <u>Technical Feasibilit</u>	<u> </u>			
		<ul> <li>a. Ability to constr technology.</li> </ul>	ruct i)	Not difficult to construct. No uncertainties in construction.		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
٠		<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	_	2
F;		c. Schedule of delay	rs i)	Unlikely		2
		problems.	ii)	Somewhat likely		1
		<ul> <li>d. Need of undertaki additional remedi action, if necess</li> </ul>	al	No future remedial actions may be anticipated.		2
		action, it heress		Some future remedial actions may be necessary.		1
		Subtotal (maximum =	10)			
	2.	Administrative Feasi	bility			
		a. Coordination with	1)	Minimal coordination is required.		2
		other agencies.	ii)	Required coordination is normal.		1
			111)	Extensive coordination is required.	·	. 0
		Subtotal (maximum =	2)			
	3.	Availability of Servand Materials	rices			
		<ul> <li>a. Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration ye generally commercially available No for the site-specific application?		1 0
			ii)	Will more than one vendor be available to provide a competitive bid?		1000
						•

Test Pet 3 Area VOLS Excavation / Soil Accution

#### Table 4-1



## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Protection of community Are there significant short-term risks Yes to the community that must be addressed? during remedial actions. No (If answer is no, go to Factor 2.) • Can the short-term risk be easily Yes controlled? Does the mitigative effort to control Yes short-term risk impact the community life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks to the environment that must be addressed? (If answer is no. go to Factor 3.) Are the available mitigative measures reliable to minimize potential impacts? Subtotal (maximum = 4) 3. Time to implement the What is the required time to implement remedy. the remedy? Required duration of the mitigative effort to control short-term risk. Subtotal (maximum = 2) 4. Permanence of the remedial Will the remedy be classified as alternative. permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

Subtotal (maximum = 5)

Ar	nalysis Factor		Basis for Evaluation During Preliminary Screening		Score
1.	Technical Feasibility			<u> </u>	
	<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		. 3
		11)	Somewhat difficult to construct. No uncertainties in construction.		. 2
		iii)	Very difficult to construct and/or significant uncertainties in construction.	_	1
	<ul><li>b. Reliability of technology.</li></ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.		. 3
		ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
	c. Schedule of delays due to technical	i)	Unlikely		2
	problems.	ii)	Somewhat likely		1
	d. Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.	V	2
	Toolon, II Hecessery.	ii)	Some future remedial actions may be necessary.		1
	Subtotal (maximum = 10)				
2.	Administrative Feasibility	Y			
	a. Coordination with	1)	Minimal coordination is required.		2
	other agencies.		Required coordination is normal.	<del></del> -	1
			Extensive coordination is required.		. <u>-</u> 0
	Subtotal (maximum = 2)		•		J
3.	Availability of Services and Materials				
	<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	: <u> </u>	1 0
		11)	Will more than one vendor be available Yes to provide a competitive bid? No	·	1 0 <

Test Pet 3 Area- VOCS Excavation / Cow Temp. Incineration

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

(15

Analysis Factor

(

## Basis for Evaluation During Preliminary Screening

_			
1.	Protection of community during remedial actions.	Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0 <sup></sup>
		° Can the short-term risk be easily controlled? Yes No	1
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community No life-style?	0 2
2.	Environmental Impacts	<ul> <li>Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)</li> </ul>	0 4
		Of Are the available mitigative measures reliable to minimize potential impacts? No	3
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	<pre>o What is the required time to implement &lt; 2yr</pre> the remedy? <pre>&gt; 2yr</pre>	1
		• Required duration of the mitigative effort to control short-term risk.	1
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	2.1(a), (b), or (c). (If answer is	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)	

	An	aly	sis Factor		Basis for Evaluation During Preliminary Screening			Score
	1.	<u>Te</u>	chnical Feasibility					
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3
				ii)	Somewhat difficult to construct. No uncertainties in construction.		-	2
				iii)	Very difficult to construct and/or significant uncertainties in construction.			1
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
		c.	Schedule of delays due to technical	i)	Unlikely			2
′ب			problems.	ii)	Somewhat likely			1
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.			2
			action, it necessary.	ii)	Some future remedial actions may be necessary.			1
		Sui	btotal (maximum = 10)					
	2.	Adı	ministrative Feasibilit	Y				
		a.	Coordination with	1)	Minimal coordination is required.			2
	1.		other agencies.	11)	Required coordination is normal.			1
				111)	Extensive coordination is required.			0
		Sul	btotal (maximum = 2)			cuction.  ctruct. cuction.  ct and/or in construction.  che specified crformance goals.  mg the specified crformance goals.  cmay be  cons may be  cuired.  cormal.  crequired.  cormal.  crequired.  cormal.  cor		
	3.		ailability of Services d Materials					
		a.	Availability of prospective technologies.	i)				1 0
				11)				1 0 4

- 551

Execute / Stabilize / Cap in RR ROW -

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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Basis for Evaluation During Preliminary Screening

	All	idiysis ractor	Preliminary Screening		2core
	1.	Protection of community during remedial actions.		es 🔽	0 - 4
			O Can the short-term risk be easily controlled? N	es	1 0
		Subtotal (maximum = 4)	Open the mitigative effort to control short-term risk impact the community life-style?	es <u>/</u>	0 2
-	2.	Environmental Impacts	O Are there significant short-term risks Y to the environment that must be addressed? (If answer is no, go to Factor 3.)	es <u>/</u>	0 4
			Of Are the available mitigative measures of the reliable to minimize potential impacts? Note: The control of the property of the pro	es	3 0
-		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	o What is the required time to implement < 2 the remedy?	lyr. <u> </u>	1
			<ul> <li>Required duration of the mitigative &lt; 2 effort to control short-term risk.</li> </ul>	Pyr	1
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No <u>V</u>	5
		Subtotal (maximum = 5)	yes, go to Factor 6.)		

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### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration prospective generally commercially available

for the site-specific application?

ii) Will more than one vendor be available to provide a competitive bid?

technologies.

### 551

Flush sedements / Treat / Cap in RR Row / Cap & Close Line

### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

119

Analysis Factor

(

### Basis for Evaluation During Preliminary Screening

	Free minary Screening
Protection of community during remedial actions.	Are there significant short-term risks Yes 0= to the community that must be addressed? No 4 (If answer is no, go to Factor 2.)
	° Can the short-term risk be easily controlled? Yes $\frac{\checkmark}{No}$ 1
Subtotal (maximum = 4)	o Does the mitigative effort to control short-term risk impact the community life-style?
Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)
	<ul> <li>Are the available mitigative measures reliable to minimize potential impacts?</li> <li>No</li> </ul>
Subtotal (maximum = 4)	
Time to implement the remedy.	° What is the required time to implement $\leq 2yr$ . $\frac{\checkmark}{2yr}$ 1 the remedy?
	° Required duration of the mitigative effort to control short-term risk. $\leq 2yr.$ $\frac{\checkmark}{>}$ 2yr. $\frac{\checkmark}{>}$ 0
Subtotal (maximum = 2)	
Permanence of the remedial alternative.	o Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)
Subtotal (maximum = 5)	Jes, yo to ractor o.,
	Subtotal (maximum = 4) Environmental Impacts  Subtotal (maximum = 4)  Time to implement the remedy.  Subtotal (maximum = 2)  Permanence of the remedial alternative.

	Ar	nalysis Factor		Basis for Evaluation During Preliminary Screening		Score
	1.	Technical Feasibility				
		<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		. 3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		. 2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
-		<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.	<del></del>	. 3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
8		c. Schedule of delays due to technical	i)	Unlikely		2
		problems.	ii)	Somewhat likely		1
		<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i)	No future remedial actions may be anticipated.		2
		action, it necessary.	ii)	Some future remedial actions may be necessary.		. 1
		Subtotal (maximum = 10)				
	2.	Administrative Feasibilit	Y			
		a. Coordination with other agencies.	1)	Minimal coordination is required.		. 2
		other agenties.	ii)	Required coordination is normal.		1
			iii)	Extensive coordination is required.		. 0
		Subtotal (maximum = 2)				
	3.	Availability of Services and Materials				
		<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration yegenerally commercially available No for the site-specific application?	es <u>/</u>	1 0
			ii)	Will more than one vendor be available to provide a competitive bid?	es	0
						<b>-</b> / /

## 551

Plush schments/Treat/Cap in RR ROW/Return line to service

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	An	alysis Factor	Basis for Evaluation During Preliminary Screening	Score
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0 - 4
			° Can the short-term risk be easily controlled? Yes No	1
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	0 2
-	2.	Environmental Impacts	<ul> <li>Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)</li> </ul>	0 4
			O Are the available mitigative measures reliable to minimize potential impacts? No	3 0
_ ·		Subtotal (maximum = 4)		
	3.	Time to implement the remedy.	° What is the required time to implement ≤ 2yr the remedy?	1 0
			° Required duration of the mitigative ≤ 2yr. ✓ 2yr. —	1
		Subtotal (maximum = 2)		
	4.	Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is</li> </ul>	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)	

Subtotal (maximum = 5)

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. i) Very reliable in meeting the specified b. Reliability of 3 process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified <u>√</u> 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. a. Coordination with 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration

generally commercially available

for the site-specific application?

ii) Will more than one vendor be available to provide a competitive bid?

prospective

technologies.

(

SSI Close line in place

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

		Preliminary Screening	
1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0 - 4
		° Can the short-term risk be easily Yes 1 Controlled?	1
	Subtotal (maximum = 4)	O Does the mitigative effort to control Yes O short-term risk impact the community No 2 life-style?	2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	1
		<ul> <li>Are the available mitigative measures</li> <li>reliable to minimize potential impacts?</li> </ul>	3
_	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	° What is the required time to implement $\leq 2yr$ . $\frac{\checkmark}{>}$ 2yr. $\frac{\checkmark}{>}$ 1	1
		* Required duration of the mitigative effort to control short-term risk. $\leq 2yr.$ $\frac{\checkmark}{2yr.}$ 10	1
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	2.1(a), (b), or (c). (If answer is	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)	

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

1.	<u>Te</u>	chnical Feasibility					
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3
			ii)	Somewhat difficult to construct. No uncertainties in construction.			2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		<del></del>	1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
	c.	Schedule of delays due to technical	i)	Unlikely			2
		problems.	ii)	Somewhat likely			1
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.			2
		decion, it necessary.	ii)	Some future remedial actions may be necessary.			1
	Su	btotal (maximum = 10)					
2.	Adı	ministrative Feasibilit	<u>y</u>				
	a.	Coordination with other agencies.	i)	Minimal coordination is required.			2
		other agencies.	ii)	Required coordination is normal.		$\checkmark$	1
			iii)	Extensive coordination is required.			0
	Sul	ototal (maximum = 2)					
3.	Ava	ailability of Services d Materials					
	a.	Availability of prospective technologies.	i)		les lo	<u> </u>	1
			ii)		es io		1 0

SS ZA No Action

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Ar	nalysis Factor	Basis for Evaluation During Preliminary Screening		Score
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 <sup>-</sup> -
		° Can the short-term risk be easily controlled?	Yes	1 0
	Subtotal (maximum = 4)	Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4
3		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	<pre>o What is the required time to implement  the remedy?</pre>	2yr	1 0
		<pre>o Required duration of the mitigative effort to control short-term risk.</pre>	2yr	1 0
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

	An	alysis 	ractor		Preliminary Screening		Score
	1.	Techn	ical Feasibility				
			ility to construct chnology.	i)	Not difficult to construct. No uncertainties in construction.		 3
				ii)	Somewhat difficult to construct. No uncertainties in construction.		 2
				iii)	Very difficult to construct and/or significant uncertainties in construction.	•	 1
-			liability of chnology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	,	 3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	i	 2
F			hedule of delays e to technical	i)	Unlikely		 2
<u> </u>			oblems.	ii)	Somewhat likely		 1
		ade	ed of undertaking ditional remedial tion, if necessary.	i)	No future remedial actions may be anticipated.		 2
		uc.	eron, ir necessary.	ii)	Some future remedial actions may be necessary.		 1
		Subto	tal (maximum = 10)				
	2.	Admin	istrative Feasibility	Ľ			
			ordination with	i)	Minimal coordination is required.		 2
		OTI	ner agencies.	ii)	Required coordination is normal.		 1
				iii)	Extensive coordination is required.		 0
		Subto	tal (maximum = 2)				
	3.		ability of Services aterials				
-		pro	ailability of ospective chnologies.	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	1 0
				ii)	Will more than one vendor be available to provide a competitive bid?	Yes No	 1 0 323

SSZA Montoring / Remitting

### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	An	alysis Factor	Basis for Evaluation During Preliminary Screening	Score
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0-
			° Can the short-term risk be easily controlled? Yes No	1 0
		Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community life-style?	- 0 2
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	- 4
			Of Are the available mitigative measures reliable to minimize potential impacts? No	3 0
_		Subtotal (maximum = 4)		
	3.	Time to implement the remedy.	° What is the required time to implement ≤ 2yr. ✓ the remedy? > 2yr. —	1 0
			<pre>o Required duration of the mitigative effort to control short-term risk.</pre> <pre>&lt; 2yr</pre> <pre>&gt; 2yr</pre>	1 0
		Subtotal (maximum = 2)		
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)	

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	. <u>Technical Feasibility</u>			- <del>-</del> .
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>		3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
		iii) Very difficult to construct and/or significant uncertainties in construction.		1
	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	$\sqrt{}$	2
	c. Schedule of delays due to technical	i) Unlikely		2
	problems.	ii) Somewhat likely		1
	d. Need of undertaking additional remedial	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>		2
	action, if necessary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>		1
	Subtotal (maximum = 10)			
2.	Administrative Feasibilit	<u>y</u>		
	a. Coordination with	i) Minimal coordination is required.	$\checkmark$	2
	other agencies.	ii) Required coordination is normal.		1
		iii) Extensive coordination is required.		0
	Subtotal (maximum = 2)			
3.	Availability of Services and Materials			
	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Ye generally commercially available No for the site-specific application?</li> </ul>		1 0
		ii) Will more than one vendor be available to provide a competitive bid?		1

SS ZA Close line in place

1 11 2

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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### Basis for Evaluation During Preliminary Screening

		Freithinary Screening		
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 - 4
		° Can the short-term risk be easily controlled?	Yes	1
	Subtotal (maximum = 4)	Open the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	2yr	1
		<pre>Property of the Required duration of the mitigative effort to control short-term risk.</pre>	2yr	1
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	_							
	1.	Tech	nical Feasibility					<del>-</del> -
			bility to construct echnology.	i)	Not difficult to construct. No uncertainties in construction.		<del></del>	3
				ii)	Somewhat difficult to construct. No uncertainties in construction.			2
				iii)	Very difficult to construct and/or significant uncertainties in construction.			1
		<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3	
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
京			chedule of delays ue to technical	i)	Unlikely			2
_			problems.	ii)	Somewhat likely			1
		ac	ed of undertaking dditional remedial tion, if necessary.	i)	No future remedial actions may be anticipated.			2
			icion, ii necessary.	ii)	Some future remedial actions may be necessary.			1
		Subto	otal (maximum = 10)					
	2.	Admin	istrative Feasibilit	Y				
		a. Coordination with other agencies.	i)	Minimal coordination is required.			2	
			ii)	Required coordination is normal.			1	
				iii)	Extensive coordination is required.			0
		Subto	tal (maximum = 2)					
	3.		ability of Services aterials					
-		pr	ailability of ospective chnologies.			Yes No		1
				ii)		Yes No		1 0

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Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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Basis for Evaluation During Preliminary Screening

		Preliminary Screening
1.	Protection of community during remedial actions.	* Are there significant short-term risks Yes to the community that must be addressed? No 4 (If answer is no, go to Factor 2.)
		° Can the short-term risk be easily Yes 1 no 0
	Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community No 2 life-style?
2.	Environmental Impacts	<ul> <li>Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)</li> </ul>
		<ul> <li>Are the available mitigative measures Yes</li></ul>
	Subtotal (maximum = 4)	
3.	Time to implement the remedy.	° What is the required time to implement $\leq 2yr$ . $\frac{\checkmark}{2yr}$ 1 the remedy?
		° Required duration of the mitigative effort to control short-term risk. $\stackrel{\leq}{>} 2yr.$ $\stackrel{\checkmark}{=}$ 0
	Subtotal (maximum = 2)	
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is
	Subtotal (maximum = 5)	yes, go to Factor 6.)

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### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. <u>Technical Feasibility</u> a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical problems. ii) Somewhat likely 1 i) No future remedial actions may be d. Need of undertaking 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of Yes prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available to provide a competitive bid?

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## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

18/12

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.		Yes	0- 4
			Yes	1
	Subtotal (maximum = 4)	•	Yes	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
		Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	<pre>o What is the required time to implement  the remedy?</pre>	2yr	1
		<pre>o Required duration of the mitigative</pre>	2yr. <u>//</u> 2yr	1
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

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No

#### **IMPLEMENTABILITY** (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be 1 necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of prospective generally commercially available No technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid?

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### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	An	alysis Factor		Basis for Evaluation During Preliminary Screening		10		Score
	1.	Protection of community during remedial actions.	0	Are there significant short-term risks to the community that must be addressed (If answer is no, go to Factor 2.)	?	Yes No		0 <sup></sup>
			0	Can the short-term risk be easily controlled?		Yes No		1
		Subtotal (maximum = 4)	o	Does the mitigative effort to control short-term risk impact the community life-style?		Yes No	$\overline{\mathcal{L}}$	0 2
-	2.	Environmental Impacts	O	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)		Yes No		0 4
			0	Are the available mitigative measures reliable to minimize potential impacts?		Yes No		3 0
		Subtotal (maximum = 4)						
	3.	Time to implement the remedy.	0	What is the required time to implement the remedy?	<u>&lt;</u>	2yr 2yr	:	1 0
			0	Required duration of the mitigative effort to control short-term risk.	<u>&lt;</u>	2yr 2yr	·	1 0
		Subtotal (maximum = 2)						
	4.	Permanence of the remedial alternative.	0	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is		Ye No		5 0
		Subtotal (maximum = 5)		yes, go to Factor 6.)				

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### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes generally commercially available prospective technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid?

20/13

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Analysis Factor		Basis for Evaluation During Preliminary Screening				
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	O - 4		
			Ocan the short-term risk be easily controlled?	Yes	1 0		
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2		
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4		
6			Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0		
_		Subtotal (maximum = 4)					
	3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr	1 0		
			Required duration of the mitigative effort to control short-term risk.	2yr 2yr	1 0		
		Subtotal (maximum = 2)					
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0		
		Subtotal (maximum = 5)	yes, go to Factor 6.)				

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

							_
2. <u>1</u>	<u>Te</u>	chnical Feasibility					
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		_	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.			2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		_	1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		_	2
1	c.	Schedule of delays due to technical	i)	Unlikely	-	_	2
		problems.	ii)	Somewhat likely		_	1
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		_	2
			ii)	Some future remedial actions may be necessary.		<u>/</u>	1
	Su	btotal (maximum = 10)					
2.	Adr	ministrative Feasibilit	Y				
	a.	Coordination with other agencies.	i)	Minimal coordination is required.		_	2
		other agencies.	ii)	Required coordination is normal.			1
			iii)	Extensive coordination is required.			0
	Sub	ototal (maximum = 2)					
3.		ailability of Services  Materials					
	a.	Availability of prospective technologies.	i)	Are technologies under consideration ye generally commercially available No for the site-specific application?		_	1
			ii)	Will more than one vendor be available to provide a competitive bid?		_	1 0 247

SS 2B Monotoring/Permothing

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	An	alysis Factor	Basis for Evaluation During Preliminary Screening			Score
	1.	Protection of community during remedial actions.		Yes No	$\overline{Z}$	0 <sup></sup>
				Yes No		1 0
		Subtotal (maximum = 4)	Does the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
-	2.	Environmental Impacts		Yes No	$\overline{Z}$	0
				Yes No		3
_ ^		Subtotal (maximum = 4)				
	3.	Time to implement the remedy.	° What is the required time to implement ≤ the remedy? >	2yr. 2yr.	<u> </u>	1
			<pre>Property of the mitigative effort to control short-term risk.</pre>	2yr. 2yr.	<u> </u>	1
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	$\overline{}$	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	_				_
	1.	. <u>Technical Feasibility</u>			-
		<ul> <li>a. Ability to construct technology.</li> </ul>	i) No No	t difficult to construct. uncertainties in construction.	 3
			ii) So No	mewhat difficult to construct. uncertainties in construction.	 2
			iii) Ve si	ry difficult to construct and/or gnificant uncertainties in construction.	 1
-		<ul> <li>Reliability of technology.</li> </ul>	i) Ve pr	ry reliable in meeting the specified ocess efficiencies or performance goals.	 3
			ii) So pr	mewhat reliable in meeting the specified ocess efficiencies or performance goals.	 2
8		<ul> <li>Schedule of delays due to technical</li> </ul>	i) Un	likely	 2
5		problems.	ii) So	mewhat likely	 1
		<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i) No an	future remedial actions may be ticipated.	 2
		Toolon, IT necessary.	ii) Som	me future remedial actions may be cessary.	 1
		Subtotal (maximum = 10)			
	2.	Administrative Feasibilit	Y		
		a. Coordination with other agencies.	i) Mi	nimal coordination is required.	 2
		other ageneres.	ii) Red	quired coordination is normal.	 1
			iii) Ext	tensive coordination is required.	 0
		Subtotal (maximum = 2)			
	3.	Availability of Services and Materials			
·-		<ul> <li>Availability of prospective technologies.</li> </ul>	ger	e technologies under consideration Yes nerally commercially available No the site-specific application?	 1
			ii) Wil to	I more than one vendor be available Yes provide a competitive bid?	1 0 35

SS 2B Flish sodements/On site Disposal

### Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

(

Basis for Evaluation During

	nii	arysis raceo	Preliminary Screening		acore
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0~ 4
			° Can the short-term risk be easily controlled?	Yes	1
		Subsected (manifester m. 4)	Obes the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2
		Subtotal (maximum = 4)			
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
6			O Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
_		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	2yr 2yr	1
			Required duration of the mitigative effort to control short-term risk.	2yr	1 0
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)		

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Te	chnical Feasibility							
1.	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3		
	b.  C.  Adm  Ava  and		ii)	Somewhat difficult to construct. No uncertainties in construction.			2		
			iii)	Very difficult to construct and/or significant uncertainties in construction.			1		
	b.	b. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3		
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2		
	c.	Schedule of delays due to technical	i)	Unlikely			2		
		problems.	ii)	Somewhat likely			1		
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.			2		
		action, it necessary.	ii)	Some future remedial actions may be necessary.			1		
	Su	ototal (maximum = 10)							
2.	Adı	ninistrative Feasibilit	¥						
	a.	Coordination with other agencies.	i)	Minimal coordination is required.			2		
		other agenties.	ii)	Required coordination is normal.			1		
			iii)	Extensive coordination is required.			0		
	Sul	ototal (maximum = 2)							
3.		ailability of Services  1 Materials							
	a.	Availability of prospective technologies.	i)	Are technologies under consideration y generally commercially available N for the site-specific application?	es o		1		
			ii)	Will more than one vendor be available to provide a competitive bid?	es o		1 0 25		

### SS 2B

## Flish Socients /Off site Disposal

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor Basis for Evaluation During Score Preliminary Screening Are there significant short-term risks 1. Protection of community Yes to the community that must be addressed? during remedial actions. (If answer is no, go to Factor 2.) ° Can the short-term risk be easily Yes controlled? Open Does the mitigative effort to control Yes short-term risk impact the community life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures Yes reliable to minimize potential impacts? Subtotal (maximum = 4) 3. Time to implement the What is the required time to implement remedy. the remedy? Required duration of the mitigative ≤ 2yr. \_\_\_\_
> 2yr. \_\_\_\_ effort to control short-term risk. Subtotal (maximum = 2) 4. Permanence of the remedial Will the remedy be classified as Yes alternative. permanent in accordance with Section

2.1(a), (b), or (c). (If answer is

yes, go to Factor 6.)

Subtotal (maximum = 5)

No

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. i) Very reliable in meeting the specified b. Reliability of technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified \_ 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be 1 necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes generally commercially available prospective technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid?

Flush Schments/Treat/Cap in RR ROW-

### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

20/10

Analysis Factor

Basis for Evaluation During Preliminary Screening

		Preliminary Screening
1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No 4 (If answer is no, go to Factor 2.)
		° Can the short-term risk be easily Yes 1 No 0
	Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community No 2 life-style?
2.	Environmental Impacts	Are there significant short-term risks Yes 0 to the environment that must be 4 addressed? (If answer is no, go to Factor 3.)
		<ul> <li>Are the available mitigative measures Yes</li></ul>
	Subtotal (maximum = 4)	
3.	Time to implement the remedy.	<pre>o What is the required time to implement</pre>
		° Required duration of the mitigative $\leq 2yr$ . $\sqrt{}$ 1 effort to control short-term risk. $> 2yr$ . $\boxed{}$ 0
	Subtotal (maximum = 2)	
4.	Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is</li> </ul>
	Subtotal (maximum = 5)	yes, go to Factor 6.)

# IMPLEMENTABILITY (Maximum Score = 15)

	An	aly	sis Factor		Basis for Evaluation During Preliminary Screening		:	Score
	1.	Te	chnical Feasibility					
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3
				ii)	Somewhat difficult to construct. No uncertainties in construction.			2
				iii)	Very difficult to construct and/or significant uncertainties in construction.			1
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
7		c.	Schedule of delays due to technical	i)	Unlikely			2
^			problems.	ii)	Somewhat likely		V	1
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.			2
			action, it necessary.	ii)	Some future remedial actions may be necessary.			1
		Sul	btotal (maximum = 10)					
	2.	Adr	ministrative Feasibilit	¥				
		a.	Coordination with	i)	Minimal coordination is required.			2
			other agencies.	ii)	Required coordination is normal.			1
				iii)	Extensive coordination is required.			0
		Sui	ototal (maximum = 2)		·		-	
	3.		ailability of Services 1 Materials					
		a.	Availability of prospective technologies.	i)		es o		1
				ii)		es o		1 0 3 €

SS 2B

Close Main Plant section of line in place/ Divert upstroam flow into Benson Creek

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

20/12

Analysis Factor

Basis for Evaluation During Preliminary Screening

_					
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	
		° Can the short-term risk be easily controlled?	Yes No		
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u></u>	
	Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		
3.	Time to implement the remedy.	O What is the required time to implement the remedy?	<pre>≤ 2yr.</pre> <pre>≥ 2yr.</pre>		
		Required duration of the mitigative effort to control short-term risk.	<pre>≤ 2yr. &gt; 2yr.</pre>	<u>_</u>	
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No		
	Subtotal (maximum = 5)	,5 - 1, <b>5</b> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid? No

SS 3 No Action

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	(					
An	alysis Factor	Basis for Evaluation During Preliminary Screening		Score		
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0-		
		° Can the short-term risk be easily controlled?	Yes	1 0		
	Subtotal (maximum = 4)	Does the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2		
2.	Environmental Impacts		Yes No <u>/</u>	0 4		
			Yes	3 0		
	Subtotal (maximum = 4)					
3.	Time to implement the remedy.	<pre>o What is the required time to implement  the remedy?  </pre>	2yr	1 0		
		° Required duration of the mitigative ≤ effort to control short-term risk. >	2yr	1 0		
	Subtotal (maximum = 2)					
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	5 0		
	Subtotal (maximum = 5)	Jes, yo to ractor o.)				

Subtotal (maximum = 5)

(

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

					_
1.	. <u>Technical Feasibility</u>				
	<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		3
		ii)	Somewhat difficult to construct. No uncertainties in construction.		2
		iii)	Very difficult to construct and/or significant uncertainties in construction.		1
	<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.	<del></del>	3
		ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
:	<ul> <li>Schedule of delays due to technical</li> </ul>	i)	Unlikely		2
	problems.	ii)	Somewhat likely		1
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i)	No future remedial actions may be anticipated.	<del></del>	2
	action, it necessary.	ii)	Some future remedial actions may be necessary.		1
	Subtotal (maximum = 10)				
2.	Administrative Feasibilit	Y			
	a. Coordination with other agencies.	i)	Minimal coordination is required.		2
	other agenties.	ii)	Required coordination is normal.		1
		iii)	Extensive coordination is required.		0
	Subtotal (maximum = 2)				
3.	Availability of Services and Materials				
	<ul> <li>Availability of prospective technologies.</li> </ul>		Are technologies under consideration yegenerally commercially available No for the site-specific application?		1
		ii)	Will more than one vendor be available Ye to provide a competitive bid?		1

*S*S 3 Manchonny Remuthing

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

### Basis for Evaluation During

An.	alysis ractor	Preliminary Screening	Score
1.	Protection of community during remedial actions.	Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0 <del>-</del> 4
		Can the short-term risk be easily controlled? Yes No	1
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	0 <b>4</b>
		<ul> <li>Are the available mitigative measures reliable to minimize potential impacts?</li> </ul>	3 0
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	° What is the required time to implement ≤ 2yr. the remedy? > 2yr.	1 0
		° Required duration of the mitigative	1
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)</li> </ul>	5 0
	Subtotal (maximum = 5)	JES, yo to ractor o.)	

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1	т.	chnical Easaibilia.	<del>-</del>			
٠.	1 6	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
*	c.	Schedule of delays due to technical	i)	Unlikely	/	2
		problems.	ii)	Somewhat likely		1
	d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.		2
		action, if necessary.	ii)	Some future remedial actions may be necessary.		1
	Su	btotal (maximum = 10)				
2.	Adı	ministrative Feasibilit	Σ <u>Υ</u>			
	a.	Coordination with other agencies.	i)	Minimal coordination is required.		2
		other agencies.	ii)	Required coordination is normal.		1
			iii)	Extensive coordination is required.		0
	Sul	ototal (maximum = 2)				
3.	Ava	ailability of Services I Materials				
	a.	Availability of prospective technologies.		Are technologies under consideration Yes generally commercially available No for the site-specific application?	s <u>/</u>	1
			ii)	Will more than one vendor be available Yes to provide a competitive bid? No	s <u></u>	1

Close in place

### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

### Basis for Evaluation During Preliminary Screening

	,,,,	arysis races.	Preliminary Screening	2001.6
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0 <sup></sup>
			O Can the short-term risk be easily controlled? Yes No	1 0
		Subtotal (maximum = 4)	O Does the mitigative effort to control Short-term risk impact the community No life-style?	0 2
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	0 <b>4</b>
			<ul> <li>Are the available mitigative measures reliable to minimize potential impacts?</li> </ul>	3 0
		Subtotal (maximum = 4)		
	3.	Time to implement the remedy.	o What is the required time to implement ≤ 2yr. the remedy? > 2yr	
			* Required duration of the mitigative effort to control short-term risk. $\leq 2yr.$ $\sim$ 2yr.	1 0
		Subtotal (maximum = 2)		
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	5 0
		Subtotal (maximum = 5)	Jes, yo to ractor o.)	

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Technical Feasibility			
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>		3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
		iii) Very difficult to construct and/or significant uncertainties in construction.		1
	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
		ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
*	c. Schedule of delays due to technical	i) Unlikely		2
•	problems.	ii) Somewhat likely		1
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>		2
	action, it necessary.	ii) Some future remedial actions may be necessary.		1
	Subtotal (maximum = 10)			
2.	Administrative Feasibilit	Y		
	a. Coordination with other agencies.	i) Minimal coordination is required.		2
	other agenties.	ii) Required coordination is normal.	<u>/</u>	1
		iii) Extensive coordination is required.		0
	Subtotal (maximum = 2)			
3.	Availability of Services and Materials			
	<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>		1
		ii) Will more than one vendor be available Yes to provide a competitive bid?		1 0 27

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

(

Basis for Evaluation During Preliminary Screening

		Preliminary Screening		
1.	Protection of community during remedial actions.	Are there significant short-term ri to the community that must be addre (If answer is no, go to Factor 2.)	sks Yes	0 <sup></sup>
		° Can the short-term risk be easily controlled?	Yes	1
	Subtotal (maximum = 4)	Ones the mitigative effort to contrashort-term risk impact the communitalife-style?	y Yes	0 2
2.	Environmental Impacts	Are there significant short-term ri to the environment that must be addressed? (If answer is no, go to Factor 3.)	sks Yes	0 4
		Are the available mitigative measur reliable to minimize potential impa	es Yes Ves No	3 0
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	What is the required time to implement the remedy?	ent < 2yr	1
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	≤ 2yr	1
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	<u>Te</u>	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.	<del>r</del>	2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
-	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
	c.	Schedule of delays due to technical	i)	Unlikely		2
		problems.	ii)	Somewhat likely	_/	1
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
		decion, it necessary.	ii)	Some future remedial actions may be necessary.		1
	Su	btotal (maximum = 10)				
2.	Ad	ministrative Feasibility	Ĺ			
	a.	Coordination with other agencies.	1)	Minimal coordination is required.		2
		other agenties.	ii)	Required coordination is normal.		1
			iii)	Extensive coordination is required.		· 0
	Su	ototal (maximum = 2)				
3.		ailability of Services d Materials				
	a.	Availability of prospective technologies.	i)	Are technologies under consideration ye generally commercially available No for the site-specific application?		0
			ii)	Will more than one vendor be available to provide a competitive bid?		1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

		Preliminary Screening		
1.	Protection of community during remedial actions.	Of Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0- 4
		° Can the short-term risk be easily controlled?	Yes	1 0
	Subtotal (maximum = 4)	Open the mitigative effort to control short-term risk impact the community life-style?	Yes No <u></u>	0 2
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	What is the required time to implement the remedy?	< 2yr.	1
		Required duration of the mitigative effort to control short-term risk.		1
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0
	Subtotal (maximum = 5)	, g = 0, g = 00 , a 000. 00,		

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of Yes prospective generally commercially available for the site-specific application? technologies. ii) Will more than one vendor be available to provide a competitive bid?

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#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

			(maximum Score = 25)		
	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Ye to the community that must be addressed? No (If answer is no, go to Factor 2.)	s <u>√</u>	0 <del>-</del> 4
			Can the short-term risk be easily controlled? Ye No		1
		Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community No life-style?		0 2
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)		0 4
			O Are the available mitigative measures reliable to minimize potential impacts? No	es	3
۔ ٔ		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	• What is the required time to implement < 2y the remedy? > 2y	/r. <u>/</u>	1
			<ul> <li>Required duration of the mitigative &lt; 2y effort to control short-term risk.</li> </ul>	yr. <u>/</u> yr. <u> </u>	1 0
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.		Yes	5
		Subtotal (maximum = 5)	yes, go to ractor 6.7		

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# IMPLEMENTABILITY (Maximum Score = 15)

	An —	lalysis factor		Basis for Evaluation During Preliminary Screening		Score
	1.	Technical Feasibility				
		<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.	*******	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
		<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
7		c. Schedule of delays due to technical	i)	Unlikely		2
<u>``</u>		problems.	ii)	Somewhat likely		1
		<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i)	No future remedial actions may be anticipated.	*****	2
		action, it necessary.	ii)	Some future remedial actions may be necessary.	$\checkmark$	1
		Subtotal (maximum = 10)				
;	2.	Administrative Feasibilit	<u>.</u> Y			
		a. Coordination with	1)	Minimal coordination is required.		2
		other agencies.	ii)	Required coordination is normal.		1
			iii)	Extensive coordination is required.		0
		Subtotal (maximum = 2)				
;	3.	Availability of Services and Materials				
		<ul> <li>a. Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration Ye generally commercially available No for the site-specific application?		1 0
			ii)	Will more than one vendor be available to provide a competitive bid?		1 0 391
						,

SS4 No Action

### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	* Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)
		° Can the short-term risk be easily controlled? Yes 1
	Subtotal (maximum = 4)	O Does the mitigative effort to control Short-term risk impact the community No 2 life-style?
2.	Environmental Impacts	<ul> <li>Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)</li> </ul>
		O Are the available mitigative measures reliable to minimize potential impacts? No 0
	Subtotal (maximum = 4)	
3.	Time to implement the remedy.	° What is the required time to implement $\leq 2yr$ . $\frac{\checkmark}{2yr}$ 1 the remedy?
		° Required duration of the mitigative effort to control short-term risk. $\frac{\langle 2yr. / \rangle}{\langle 2yr. / \rangle}$ 0
	Subtotal (maximum = 2)	
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is
	Subtotal (maximum = 5)	yes, go to Factor 6.)

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1	Τ.	chnical Foreibility				
1.	16	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	$\checkmark$	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.	-	2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		]
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
<b>!</b>	с.	Schedule of delays due to technical	i)	Unlikely		2
		problems.	ii)	Somewhat likely	·	1
	d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.		;
		action, if necessary.	ii)	Some future remedial actions may be necessary.		:
	Su	btotal (maximum = 10)				
2.	Adı	ministrative Feasibilit	Y			
	a.	Coordination with other agencies.	i)	Minimal coordination is required.		2
		other agencies.	ii)	Required coordination is normal.		1
			iii)	Extensive coordination is required.		(
	Su	btotal (maximum = 2)				
3.	Ava	ailability of Services d Materials			,	
	a.	Availability of prospective technologies.	i)	Are technologies under consideration Ye generally commercially available No for the site-specific application?		
			ii)	Will more than one vendor be available to provide a competitive bid?	s	_(

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Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Basis for Evaluation During Analysis Factor Score Preliminary Screening 1. Protection of community Are there significant short-term risks Yes to the community that must be addressed? during remedial actions. No (If answer is no, go to Factor 2.) ° Can the short-term risk be easily Yes 1 controlled? Ooes the mitigative effort to control Yes 0 short-term risk impact the community No life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks Yes to the environment that must be No addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures Yes reliable to minimize potential impacts? No Subtotal (maximum = 4) 3. Time to implement the What is the required time to implement remedy. the remedy? Required duration of the mitigative ≤ 2yr. \_\_\_\_
> 2yr. \_\_\_\_ effort to control short-term risk. Subtotal (maximum = 2) 4. Permanence of the remedial Will the remedy be classified as Yes alternative. permanent in accordance with Section

2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

Subtotal (maximum = 5)

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### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified 3 process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. a. Coordination with 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration prospective generally commercially available No technologies. for the site-specific application? ii) Will more than one vendor be available to provide a competitive bid?

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23/12

### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Ar	nalysis Factor	Basis for Evaluation During Preliminary Screening				
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)		0 - 4		
			Ocan the short-term risk be easily controlled? Yes No	;	1		
		Subtotal (maximum = 4)	<pre>o Does the mitigative effort to control Yes _    short-term risk impact the community No _    life-style?</pre>		0 2		
-	2.	Environmental Impacts	O Are there significant short-term risks Yes to the environment that must be No addressed? (If answer is no, go to Factor 3.)	<u> </u>	D 4		
6			<ul> <li>Are the available mitigative measures</li> <li>reliable to minimize potential impacts?</li> </ul> No	_ ;	3 0		
)		Subtotal (maximum = 4)					
	3.	Time to implement the remedy.	What is the required time to implement < 2yr the remedy? < 2yr	<u> </u>	1		
			<pre>o Required duration of the mitigative effort to control short-term risk.</pre> <pre>&lt; 2yr</pre> <pre>&gt; 2yr</pre>	<u>/</u> ;	1 0		
		Subtotal (maximum = 2)					
	4.	Permanence of the remedial alternative.	<pre>o Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is</pre>	<u> </u>	5 0		
		Subtotal (maximum = 5)	yes, go to Factor 6.)				

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# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

_						
1.	<u>Te</u>	chnical Feasibility				-
	а.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		
			ii)	Somewhat difficult to construct. No uncertainties in construction.		
			iii)	Very difficult to construct and/or significant uncertainties in construction.		
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		,
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
	c.	Schedule of delays due to technical	i)	Unlikely		
		problems.	ii)	Somewhat likely	<del></del>	
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
		deciding virilecessary.	ii)	Some future remedial actions may be necessary.		
	Su	btotal (maximum = 10)				
2.	Adı	ministrative Feasibilit	Y			
	a.	Coordination with other agencies.	i)	Minimal coordination is required.		
		ageneres.	ii)	Required coordination is normal.		
			iii)	Extensive coordination is required.		
	Sul	ototal (maximum = 2)				
3.	Ava	ilability of Services Materials				
	a.	Availability of prospective technologies.	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?		
			ii)	Will more than one vendor be available Yes to provide a competitive bid?		·

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

12/11

Analysis Factor

Basis for Evaluation During Preliminary Screening

	Preliminary Screening
Protection of commu during remedial act	
	° Can the short-term risk be easily controlled? Yes No
Subtotal (maximum =	O Does the mitigative effort to control short-term risk impact the community life-style?
2. Environmental Impac	o Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to Factor 3.)
Subtotal (maximum =	o Are the available mitigative measures reliable to minimize potential impacts? No
<ol> <li>Time to implement t remedy.</li> </ol>	•
, s <b></b> ,	* Required duration of the mitigative effort to control short-term risk. > 2yr.
Subtotal (maximum =	2)
<ol> <li>Permanence of the r alternative.</li> </ol>	emedial ° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)
Subtotal (maximum =	

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. کد\_ No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified <u>√</u> 3 technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid?

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

19/12

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	Ali	arysis ractor	Preliminary Screening
	1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes
			° Can the short-term risk be easily controlled? Yes 1
		Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community No 2 life-style?
-	2.	Environmental Impacts	* Are there significant short-term risks Yes 0 to the environment that must be addressed? (If answer is no, go to Factor 3.)
F	,		<ul> <li>Are the available mitigative measures reliable to minimize potential impacts?</li> <li>Yes</li></ul>
C.		Subtotal (maximum = 4)	
	3.	Time to implement the remedy.	° What is the required time to implement $\leq 2yr$ . $\frac{\checkmark}{2yr}$ 1 the remedy?
			° Required duration of the mitigative ≤ 2yr. ✓ 1 effort to control short-term risk. ⊃ 2yr. — 0
		Subtotal (maximum = 2)	
	4.	Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)</li> </ul>
		Subtotal (maximum = 5)	Jes, yo to ractor o.,

# IMPLEMENTABILITY (Maximum Score = 15)

Ar	nalysis Factor		sis for Evaluation During Preliminary Screening		\$	Score		
1.	Technical Feasibility							
	<ul> <li>a. Ability to construct technology.</li> </ul>	i) Not No	difficult to construct. uncertainties in construction.			3		
		ii) Som No	newhat difficult to construct. uncertainties in construction.			2		
		iii) Ver sig	ry difficult to construct and/or pnificant uncertainties in construction.			1		
	<ul> <li>Reliability of technology.</li> </ul>	i) Ver	ry reliable in meeting the specified ocess efficiencies or performance goals.			3		
		ii) Som	newhat reliable in meeting the specified ocess efficiencies or performance goals.			2		
7	c. Schedule of delays due to technical	i) Unl	ikely			2		
<b>-</b>	problems.	ii) Som	newhat likely			1		
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>		future remedial actions may be cicipated.			2		
	decron, in necessary.		ne future remedial actions may be cessary.			1		
	Subtotal (maximum = 10)							
2.	Administrative Feasibility							
	a. Coordination with	i) Mir	nimal coordination is required.			2		
	other agencies.	ii) Rec	quired coordination is normal.			1		
		iii) Ext	censive coordination is required.			0		
	Subtotal (maximum = 2)				-			
3.	Availability of Services and Materials							
	<ul> <li>Availability of prospective technologies.</li> </ul>	ger		es lo		1		
				es io		1 0 411		

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### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
	<ol> <li>Protection of community during remedial actions.</li> </ol>	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 - 4
		° Can the short-term risk be easily controlled?	Yes	1 0
	Subtotal (maximum = 4)	Open the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2
•	2. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
3		Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
	Subtotal (maximum = 4)			
	<ol><li>Time to implement the remedy.</li></ol>	What is the required time to implement the remedy?	2yr	1
		<ul> <li>Required duration of the mitigative </li> <li>effort to control short-term risk.</li> </ul>	2yr	1
	Subtotal (maximum = 2)			
	4. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

(Note: No pages 413-416)

Subtotal (maximum = 5)

# IMPLEMENTABILITY (Maximum Score = 15)

	Analysis Factor			Basis for Evaluation During Preliminary Screening			Score	
:	1. <u>I</u>	echnical Feasibility						
	a	a. Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3	
			ii)	Somewhat difficult to construct. No uncertainties in construction.		1	2	
			iii)	Very difficult to construct and/or significant uncertainties in construction.		<del></del>	1	
	b	. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3	
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2	
Et .	c	. Schedule of delays due to technical	i)	Unlikely			2	
<u>``</u>		problems.	ii)	Somewhat likely			1	
	d	<ol> <li>Need of undertaking additional remedial action, if necessary.</li> </ol>	i)	No future remedial actions may be anticipated.			2	
		action, it necessary.	ii)	Some future remedial actions may be necessary.			1	
	S	ubtotal (maximum = 10)						
2	2. Administrative Feasibility							
	a	a. Coordination with	i)	Minimal coordination is required.			2	
		other agencies.	ii)	Required coordination is normal.			1	
			iii)	Extensive coordination is required.			0	
	S	ubtotal (maximum = 2)						
3		vailability of Services nd Materials				,		
	a	<ul> <li>Availability of prospective technologies.</li> </ul>	i)		res No		1	
			ii)		res lo		1 0 419	
							<b>→</b> / i	

SS 5 No Action

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

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Thus system 5

Score

Analysis Factor

1. Protection of community during remedial actions.

Subtotal (maximum = 4)

Subtotal (maximum = 4)

Subtotal (maximum = 2)

4. Permanence of the remedial

Subtotal (maximum = 5)

alternative.

(

3. Time to implement the

remedy.

2. Environmental Impacts

Basis for Evaluation During Preliminary Screening

٥	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	$\overline{Z}$	0 - 4
0	Can the short-term risk be easily controlled?	Yes No		1 0
0	Does the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
0	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	$\overline{}$	0
0	Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3
0	What is the required time to implement < the remedy?	2yr. 2yr.		1 0
0	Required duration of the mitigative effort to control short-term risk.	2yr. 2yr.	<u> </u>	1 0
	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	$\overline{\checkmark}$	5

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## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

_		Preliminary Screening	
1.	. <u>Technical Feasibility</u>		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2
		iii) Very difficult to construct and/or significant uncertainties in construction.	1
-	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	3
_		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	<u></u>
	<ul> <li>c. Schedule of delays due to technical</li> </ul>	i) Unlikely	2
	problems.	ii) Somewhat likely	1
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	2
		<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	1
	Subtotal (maximum = 10)		
2.	Administrative Feasibilit	t <u>y</u>	
	<ul> <li>Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	
	conc. ageneres.	ii) Required coordination is normal.	1
		iii) Extensive coordination is required.	0
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		,
(	<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration ye generally commercially available No for the site-specific application?</li> </ul>	s <u>1</u> 0
		ii) Will more than one vendor be available Yen to provide a competitive bid?	$\begin{array}{c} 1 \\ \hline 0 \\ 423 \end{array}$
			• •

55 5 Institutional - Monitoring

#### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

17/13

Analysis Factor

Basis for Evaluation During Preliminary Screening

			Preliminary Screening	2core
	1	. Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	Z 4
			Can the short-term risk be easily yes controlled? No	_ 1 _ 0
		Subtotal (maximum = 4)	Opes the mitigative effort to control Yes short-term risk impact the community No life-style?	_ 0 2
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Z 4
6		Subtotal (maximum = 4)	O Are the available mitigative measures Yes reliable to minimize potential impacts? No	_ 3 _ 0
	3.	Time to implement the remedy.	° What is the required time to implement ≤ 2yr. ✓ the remedy? > 2yr	_ 1 _ 0
			Required duration of the mitigative effort to control short-term risk. \$\leq 2\text{yr.}  \frac{\sqrt{2yr.}}{\sqrt{2yr.}}\$	_ 1 _ 0
		Subtotal (maximum = 2)		
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)	

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1	. <u>T</u>	echnical Feasibility			
	<b>a</b> .	. Ability to construct technology.	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>		3
			<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
			iii) Very difficult to construct and/or significant uncertainties in construction.		1
-	b.	Reliability of technology.	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
			<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>		2
	c.	Schedule of delays due to technical	i) Unlikely		2
<u> </u>		problems.	ii) Somewhat likely	<del></del>	1
	d.	Need of undertaking additional remedial action, if necessary.	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>		2
		decron, it necessary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	<u> </u>	1
	Su	btotal (maximum = 10)			
2.	Adı	ministrative Feasibilit	<u>Y</u>		
	a.	Coordination with other agencies.	i) Minimal coordination is required.		2
			ii) Required coordination is normal.		1
			iii) Extensive coordination is required.		0
	Sub	ototal (maximum = 2)			
3.	Ava	ilability of Services Materials			
		Availability of prospective technologies.	<ul> <li>i) Are technologies under consideration yes generally commercially available No for the site-specific application?</li> </ul>		1 0
			ii) Will more than one vendor be available Yes to provide a competitive bid? No		1 0 47

Flush System! Treat water / Cop Sluige in PR ROW/ Leave System

Table 4-1

In place

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation Duris

	_	marysis ractor	Basis for Evaluation During Preliminary Screening		Score
	1	. Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)		0 <del>-</del> 4
			Can the short-term risk be easily Yes controlled?	·	1
		Subtotal (maximum = 4)	Object the mitigative effort to control yes short-term risk impact the community No life-style?		0 2
-	2.	. Environmental Impacts	<ul> <li>Are there significant short-term risks Yes to the environment that must be No addressed? (If answer is no, go to Factor 3.)</li> </ul>		0 4
6		Subtotal (maximum = 4)	Of Are the available mitigative measures Yes reliable to minimize potential impacts? No		3 0
	2	•			
	٥.	Time to implement the remedy.	What is the required time to implement \le 2yr the remedy? \rightarrow 2yr	: <u></u>	1
			Required duration of the mitigative effort to control short-term risk. \$\leq\$ 2yr	: <u>~</u>	1
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	2.1(a), $(b)$ , or $(c)$ . (If answer is	s	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)		

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Te	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
	c.	Schedule of delays due to technical	i)	Unlikely		2
		problems.	ii)	Somewhat likely		1
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		2
		Toolon, necessary,	ii)	Some future remedial actions may be necessary.		1
	Sul	ototal (maximum = 10)				
2.	<u>Adr</u>	ninistrative Feasibilit	Y			
	a.	Coordination with other agencies.	i)	Minimal coordination is required.		2
		- Ligeneres.	ii)	Required coordination is normal.	<u> </u>	1
			iii)	Extensive coordination is required.	-	0
	Sut	ototal (maximum = 2)				
3.	Ava	ailability of Services i Materials				
	a.	Availability of prospective technologies.	i)	Are technologies under consideration Ye generally commercially available No for the site-specific application?		1
			ii)	Will more than one vendor be available to provide a competitive bid?		1 0

555 July System / Treat water / Cap Sludge in ZR Raw / Close System in Place

### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Kill.

Analysis Factor

Basis for Evaluation During Preliminary Screening

_					
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	$\overline{Z}$	0 <del>-</del> 4
		Can the short-term risk be easily controlled?	Yes No		1 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No		0
	Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	2yr. 2yr.	<u> </u>	1 0
		<ul><li>Required duration of the mitigative effort to control short-term risk.</li></ul>	2yr. 2yr.		1
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No		5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

	A -	Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1	1. Technical Feasibility			
		<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>		. 3
			<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
			<ul><li>ii) Very difficult to construct and/or significant uncertainties in constr</li></ul>	uction.	1
		b. Reliability of technology.	<ul> <li>i) Very reliable in meeting the specif process efficiencies or performance</li> </ul>	ind	3
			<ul> <li>ii) Somewhat reliable in meeting the sp process efficiencies or performance</li> </ul>	ecified	2
		<ul> <li>c. Schedule of delays due to technical</li> </ul>	i) Unlikely		2
		problems.	ii) Somewhat likely		1
		<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ol> <li>No future remedial actions may be anticipated.</li> </ol>		2
		,	<ul> <li>i) Some future remedial actions may be necessary.</li> </ul>		1
		Subtotal (maximum = 10)			
	2.	. Administrative Feasibility			
		a. Coordination with other agencies.	i) Minimal coordination is required.		2
			i) Required coordination is normal.		1
			i) Extensive coordination is required.		0
		Subtotal (maximum = 2)			
	3.	Availability of Services and Materials			
_		<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration generally commercially available for the site-specific application?</li> </ul>	Yes V	1 0
			i) Will more than one vendor be availab to provide a competitive bid?	No Yes	1 0 
					-

Close System in Place (Fill with Concrete)

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

1./2

Basis for Evaluation During Analysis Factor Score Preliminary Screening 1. Protection of community Are there significant short-term risks Yes 0during remedial actions. to the community that must be addressed? (If answer is no, go to Factor 2.) ° Can the short-term risk be easily Yes controlled? Does the mitigative effort to control Yes 0 short-term risk impact the community life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures Yes reliable to minimize potential impacts? Subtotal (maximum = 4) 3. Time to implement the What is the required time to implement remedy. the remedy? Required duration of the mitigative ≤ 2yr. \_
> 2yr. \_ effort to control short-term risk.

Will the remedy be classified as

yes, go to Factor 6.)

permanent in accordance with Section 2.1(a), (b), or (c). (If answer is

Subtotal (maximum = 2)

4. Permanence of the remedial

Subtotal (maximum = 5)

alternative.

Yes

# IMPLEMENTABILITY (Maximum Score = 15)

	Α	nal	ysis Factor		Basis for Evaluation During Preliminary Screening			Score
	1	. <u>T</u>	echnical Feasibility					
		a	. Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		<del></del>	3
				ii)	Somewhat difficult to construct. No uncertainties in construction.			2
				iii)	Very difficult to construct and/or significant uncertainties in construction.			1
-		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
8		c.	Schedule of delays due to technical	i)	Unlikely			2
			problems.	ii)	Somewhat likely			1
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.			2
			Toolon, IT necessary.	ii)	Some future remedial actions may be necessary.			1
		Su	btotal (maximum = 10)					
	2.	Ad	ministrative Feasibilit	<u>.</u> Y				
		a.	Coordination with other agencies.	i)	Minimal coordination is required.			2
				ii)	Required coordination is normal.			1
				iii)	Extensive coordination is required.			0
		Sul	btotal (maximum = 2)					
	3.	Ava	ailability of Services d Materials					
(		a.	Availability of prospective technologies.		Are technologies under consideration Y generally commercially available N for the site-specific application?	es o		1
				ii)	Will more than one vendor be available You provide a competitive bid?	es o		1 0 43
								<b>-</b> ;•

Exercise Tanks & Sediment Tip in RR ROW

### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Anal	ysis	Factor
------	------	--------

(

## Basis for Evaluation During Preliminary Screening

_		Preliminary Screening		20016
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 <sup>-</sup>
		° Can the short-term risk be easily controlled?	Yes	1
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
•	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
3.	Time to implement the remedy.	° What is the required time to implement the remedy?	2yr	1 0
		Required duration of the mitigative effort to control short-term risk.	2yr	1 0
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
	Subtotal (maximum = 5)	yes, go to ractor 6.)		
	3.	Subtotal (maximum = 4)  2. Environmental Impacts  Subtotal (maximum = 4)  3. Time to implement the remedy.  Subtotal (maximum = 2)  4. Permanence of the remedial alternative.	1. Protection of community during remedial actions.  are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)  are the short-term risk be easily controlled?  because the mitigative effort to control short-term risk impact the community life-style?  can the short-term risk be easily controlled?  because the mitigative effort to control short-term risks impact the community life-style?  can the short-term risk be easily controlled?  can the short-term risk be easily controlled.	1. Protection of community during remedial actions.  or Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)  or Can the short-term risk be easily controlled?  or Does the mitigative effort to control short-term risk impact the community No life-style?  2. Environmental Impacts  or Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to short-term risk impact the community No life-style?  or Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to short-term risk impact the community No life-style?  or Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to short-term risk impact the risk No life-style?  or Are there significant short-term risks yes No life-style?  Or Are the available mitigative measures reliable to minimize potential impacts? No life-style yes reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measures reliable to minimize potential impacts?  Or Are the available mitigative measu

## IMPLEMENTABILITY (Maximum Score = 15)

		(*************************************	
	Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
	1. Technical Feasibility		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2
		iii) Very difficult to construct and/or significant uncertainties in construction.	1
	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	3
<b>~</b> 1.		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	2
	<ul> <li>C. Schedule of delays due to technical</li> </ul>	i) Unlikely	2
<b>O</b>	problems.	ii) Somewhat likely	
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ol> <li>No future remedial actions may be anticipated.</li> </ol>	2
	, massagary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	1
	Subtotal (maximum = 10)		
2.	. Administrative Feasibili	<u>ty</u>	
	<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	2
		ii) Required coordination is normal.	1
		iii) Extensive coordination is required.	0
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		
-	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	<u> </u>
		ii) Will more than one vendor be available Yes to provide a competitive bid? No	<u></u>
			<u>کال</u>

Buildings & Debris

MPA - Building Ashes tos
No Action 11/13

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

		Preliminary Screening			
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No		0 <del>-</del> 4
		Can the short-term risk be easily controlled?	Yes No		1
	Subtotal (maximum = 4)	Obes the mitigative effort to control short-term risk impact the community life-style?	Yes No	<b></b>	0 2
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u> </u>	0 4
	Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3 0
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr. 2yr.		1 0
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr. 2yr.		1
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	$\overline{\mathcal{L}}$	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

_						
1.	. <u>Te</u>	echnical Feasibility				-
	а.	. Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	_ <u>_</u>	
			ii)	Somewhat difficult to construct. No uncertainties in construction.		_ 2
			iii)	Very difficult to construct and/or significant uncertainties in construction.	<del></del>	_ 1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		_ 3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		_ 2
	c.	Schedule of delays due to technical	i)	Unlikely	<u></u>	_ z
		problems.	ii)	Somewhat likely		
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		. 2
		,	ii)	Some future remedial actions may be necessary.	~	1
	Sul	ototal (maximum = 10)				
2.	Adn	ninistrative Feasibilit	¥			
	a.	Coordination with	1)	Minimal coordination is required.	✓	′ ,
		other agencies.	ii)	Required coordination is normal.		
			iii)	Extensive coordination is required.	<del></del>	0
	Sub	total (maximum = 2)		·		
3.	Ava and	ilability of Services Materials				
		Availability of prospective technologies.		Are technologies under consideration Yegenerally commercially available No for the site-specific application?		1 0
			ii)	Will more than one vendor be available Ye to provide a competitive bid? No		1 0

Buildings & Debris

Bullings Hoten

Table 4-1

5/13

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Ar	nalysis Factor	Basis for Evaluation During Preliminary Screening	Score
	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
		° Can the short-term risk be easily controlled?	Yes 1 No 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
0 2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
6	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
	Subtotal (maximum = 4)		
(1) 3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr1 2yr0
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr 1 2yr 0
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0
	Subtotal (maximum = 5)	Jes, go to ractor o.,	

Subtotal (maximum = 5)

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Sco.

	Preliminary Screening				
1.	Technical Feasibility				
10	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	3		
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	<u> </u>		
		iii) Very difficult to construct and/or significant uncertainties in construction.			
	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>			
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>			
	c. Schedule of delays	i) Unlikely			
<i>C</i> ,	<pre>due to technical problems.</pre>	ii) Somewhat likely			
	d. Need of undertaking additional remedial	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>			
	action, if necessary.	ii) Some future remedial actions may be necessary.	<del>-1/-</del>		
	Subtotal (maximum = 10)				
2.	Administrative Feasibilit	<u>·Y</u>			
	a. Coordination with	i) Minimal coordination is required.	$\checkmark$		
$\cup$	other agencies.	ii) Required coordination is normal.	•		
		iii) Extensive coordination is required.			
	Subtotal (maximum = 2)				
m 3.	Availability of Services and Materials				
(	<ul> <li>Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration Yes generally commercially available No for the site-specific application?			
		ii) Will more than one vendor be available to provide a competitive bid?	<del></del>		
			451		

Wounglint Acon
Buldey's
HH+3 Sool off Bulley's Lock

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

		(	
Ar	nalysis Factor	Basis for Evaluation During Preliminary Screening	13 Score
$\left(3\right)^{\frac{1}{1}}$	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
		° Can the short-term risk be easily controlled?	Yes 1 No 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
4)2.	Environmental Impacts	Of Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
F		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
<b>C</b> ,	Subtotal (maximum = 4)		
(2) 3.	. Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr 1 2yr 0
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr 1 2yr 0
ļ	Subtotal (maximum = 2)		
: () <b>4</b> .	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5
	Subtotal (maximum = 5)		

## IMPLEMENTABILITY

(Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Sco

1.	Technical Feasibility				
ć	a. Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		٠
		ii)	Somewhat difficult to construct. No uncertainties in construction.		•
		iii)	Very difficult to construct and/or significant uncertainties in construction	١.	
	<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals	i.	•
		ii)	Somewhat reliable in meeting the specific process efficiencies or performance goals	ed	
•	c. Schedule of delays	i)	Unlikely		
•	<pre>due to technical problems.</pre>	ii)	Somewhat likely		
C	d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.		
	action, if necessary.	ii)	Some future remedial actions may be necessary.		
5	Subtotal (maximum = 10)				
2. <u>#</u>	Administrative Feasibilit	Y			
, a	. Coordination with	1)	Minimal coordination is required.		
	other agencies.	ii)	Required coordination is normal.		
/		iii)	Extensive coordination is required.		
S	Subtotal (maximum = 2)				
	Availability of Services and Materials				
)	<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	
		ii)	Will more than one vendor be available to provide a competitive bid?	Yes No	

New plant from

HITE 3 4

New A Shorton by OSHA Welkedo

Table 4-1 Oly LF Dispose

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

23/12

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
$\left( \mathcal{I}\right)$		° Can the short-term risk be easily controlled?	Yes 1 No 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes O
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
6	Subtotal (maximum = 4),	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr 1 2yr 0
		Required duration of the mitigative effort to control short-term risk.	2yr · 1 2yr 0
,	Subtotal (maximum = 2)		
(5)4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes 5 No 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)	

#### **IMPLEMENTABILITY** (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During

Sco

Anatysis raccor		Preliminary Screening
1. <u>Technical Feasibil</u>	ity	
<ul> <li>a. Ability to cons technology.</li> </ul>	truct i)	Not difficult to construct. No uncertainties in construction.
	ii)	Somewhat difficult to construct. No uncertainties in construction.
	iii)	Very difficult to construct and/or significant uncertainties in construction.
<ul><li>b. Reliability of technology.</li></ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.
	ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.
c. Schedule of del due to technica		Unlikely
problems.		Somewhat likely
<ul> <li>d. Need of underta additional reme action, if nece</li> </ul>	dial	No future remedial actions may be anticipated.
action, in nece		Some future remedial actions may be necessary.
Subtotal (maximum	= 10)	
2. Administrative Fea	sibility	
a. Coordination wi	•	Minimal coordination is required.
other agencies.		Required coordination is normal.
	111)	Extensive coordination is required.

Subtotal (maximum = 2)

## 3. <u>Availability of Services</u> and <u>Materials</u>

a. Availability of prospective technologies.

i) Are technologies under consideration generally commercially available for the site-specific application?

Yes No

ii) Will more than one vendor be available to provide a competitive bid?

Permore artistes to SHA methods,

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor Ba

Basis for Evaluation During
Preliminary Screening

		•	Preliminary Screening
	1.	Protection of community during remedial actions.	o Are there significant short-term risks Yes 05 to the community that must be addressed? No 4 (If answer is no, go to Factor 2.)
			° Can the short-term risk be easily controlled? Yes 1
			O Does the mitigative effort to control short-term risk impact the community life-style?
		Subtotal (maximum = 4)	
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)
	<b>.</b>		<ul> <li>Are the available mitigative measures reliable to minimize potential impacts?</li> <li>No</li> </ul>
C.	,	Subtotal (maximum = 4)	
	3.	Time to implement the remedy.	° What is the required time to implement $\leq 2yr$ . $\frac{1}{2yr}$ the remedy?
			° Required duration of the mitigative effort to control short-term risk. $\frac{\langle 2yr. / \rangle}{\langle 2yr. / \rangle}$ 1
		Subtotal (maximum = 2)	
	4.	Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)</li> </ul>
		Subtotal (maximum = 5)	, <b>, , , , , , , , , , , , , , , , , , </b>

# IMPLEMENTABILITY (Maximum Score = 15)

		(Maximum Score - 13)	Score
Ana	alysis Factor	Basis for Evaluation During Preliminary Screening	
1.	Technical Feasibility  a. Ability to construct technology.	<ul> <li>i) Not difficult to construct.         No uncertainties in construction.     </li> <li>ii) Somewhat difficult to construct.         No uncertainties in construction.     </li> </ul>	3 2
6	<ul> <li>b. Reliability of technology.</li> <li>c. Schedule of delays due to technical problems.</li> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>iii) Very difficult to construct and/or significant uncertainties in construction.</li> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> <li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li> <li>i) Unlikely</li> <li>ii) Somewhat likely</li> <li>i) No future remedial actions may be anticipated.</li> </ul>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Subtotal (maximum = 10)  2. Administrative Feasibil  a. Coordination with other agencies.		2 1
(	Subtotal (maximum = 2)  3. Availability of Service and Materials  a. Availability of prospective technologies.		Yes — Yes No Ab

MPA - Debris Piles Asbestos No Action

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

		•	
An	alysis Factor	Basis for Evaluation During Preliminary Screening	Score
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0= No 4
		° Can the short-term risk be easily controlled?	Yes 1 No 0
		Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
	Subtotal (maximum = 4)		,
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
Žį.		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
·	Subtotal (maximum = 4)		
3	. Time to implement the remedy.	Owner with the required time to implement the remedy?	<pre></pre>
		Required duration of the mitigative effort to control short-term risk.	<pre></pre>
	Subtotal (maximum = 2)		
£	<ol> <li>Permanence of the remedial alternative.</li> </ol>	• Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0

Subtotal (maximum = 5)

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
1. Technical Feasibility		
a. Ability to construct technology.	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	3
	<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	1
b. Reliability of technology.	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	3
	<ul> <li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	2
c. Schedule of delays	i) Unlikely	2
due to technical problems.	ii) Somewhat likely	1
<ul> <li>d. Need of undertaking additional remedial</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	2
action, if necessary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	1
Subtotal (maximum = 10)		
2. Administrative Feasibili	<u>ty</u>	,
a. Coordination with	i) Minimal coordination is required.	2
other agencies.	ii) Required coordination is normal.	1
	iii) Extensive coordination is required.	0
Subtotal (maximum = 2)		
<ol> <li>Availability of Services and Materials</li> </ol>		/
<ul> <li>a. Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes
tetimorogres.	ii) Will more than one vendor be available to provide a competitive bid?	Yes

Mompliet Debi-s piles Affel Hotely Heess Ristriching

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

< /13

	5 //	
Analysis Factor	Basis for Evaluation During Preliminary Screening	) Scor€
<ol> <li>Protection of community during remedial actions.</li> </ol>	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
(2)	• Can the short-term risk be easily controlled?	Yes 1 No 0
	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
Subtotal (maximum = 4)		
2. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
6	Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
Subtotal (maximum = 4)		/
3. Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre></pre>
	<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	<pre></pre>
Subtotal (maximum = 2)		
4. Permanence of the reme alternative.	edial "Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes
Subtotal (maximum = 5)	)	

(

#### IMPLEMENTABILITY (Maximum Score = 15)

Basis for Evaluation During Analysis Factor Preliminary Screening

Scot

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27	:
U,	1
1	İ
\U	/

1. Technical Feasibility

a. Ability to construct technology.

i) Not difficult to construct. No uncertainties in construction.

ii) Somewhat difficult to construct. No uncertainties in construction.

2

iii) Very difficult to construct and/or significant uncertainties in construction.

b. Reliability of technology.

i) Very reliable in meeting the specified process efficiencies or performance goals.



ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.





c. Schedule of delays due to technical problems.

i) Unlikely



ii) Somewhat likely

d. Need of undertaking additional remedial action, if necessary. i) No future remedial actions may be anticipated.



ii) Some future remedial actions may be necessary.



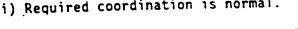
### Subtotal (maximum = 10)

### 2. Administrative Feasibility

a. Coordination with other agencies.

i) Minimal coordination is required.







iii) Extensive coordination is required

## Subtotal (maximum = 2)

#### 3. Availability of Services and Materials



a. Availability of prospective technologies.

i) Are technologies under consideration generally commercially available for the site-specific application?

Yes No

ii) Will more than one vendor be available to provide a competitive bid?

Yes No

Mom Most - Delvas places HIHH Consider Cover in place.

### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

16 | 11

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
<ol> <li>Protection of community during remedial actions.</li> </ol>	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
(3)	• Can the short-term risk be easily controlled?	Yes 1 No 0
	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes O
Subtotal (maximum = 4)		
2. Environmental Impacts	Of Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
Subtotal (maximum = 4)		
3. Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre></pre>
	<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	<pre>&lt; 2yr 1 &gt; 2yr 0</pre>
Subtotal (maximum = 2)		
	o Will the remedy be classified as	Yes 5
4. Permanence of the remedia alternative.	permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	No <u>√</u> <sup>(</sup>
	•	

Subtotal (maximum = 5)

## IMPLEMENTABILITY

(Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Sco.

No

475

1.	Technical Feasibility		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	_
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		iii) Very difficult to construct and/or significant uncertainties in construction.	_
	<ul><li>b. Reliability of technology.</li></ul>	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	_
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	-
<u> </u>	c. Schedule of delays	i) Unlikely	-
	due to technical problems.	ii) Somewhat likely	•
	d. Need of undertaking additional remedial	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	
	action, if necessary.	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	
	Subtotal (maximum = 10)		
2	. Administrative Feasibili	ty	
	a. Coordination with	<ol> <li>Minimal coordination is required.</li> </ol>	
$\mathcal{O}_{\mathcal{I}}$	other agencies.	ii) Required coordination is normal.	
<i>)</i>		iii) Extensive coordination is required.	
	Subtotal (maximum = 2)		
$\left\{  ight\} :$	<ol> <li>Availability of Services and Materials</li> </ol>		
( (	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration -generally commercially available for the site-specific application?</li> </ul>	Yes No
	tecimo rogres.	ii) Will more than one vendor be available	Yes No

to provide a competitive bid?

Now plant delas 12-(e) Excorde - OMSile LF Duj-20

On-mite

Table 4-1

17/10

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
1. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
	° Can the short-term risk be easily controlled?	Yes 1 No 0
	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
Subtotal (maximum = 4)		
2. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
	Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
Subtotal (maximum = 4)		1
3. Time to implement the remedy.	Owhat is the required time to implement the remedy?	< 2yr
	<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	< 2yr. 1 c
		/
Subtotal (maximum = 2)		Waa /
4. Permanence of the remedial alternative.	• Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	No The
Subtotal (maximum = 5)	, <b>3, -</b>	

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Sco

479

1.	Technical Feasibility		
	<ul> <li>Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	<u>·</u>
)		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
. /		iii) Very difficult to construct and/or significant uncertainties in construction.	
	<ul><li>b. Reliability of technology.</li></ul>	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	
		<ul> <li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
<i>E</i>	c. Schedule of delays	i) Unlikely	—,
C	due to technical problems.	ii) Somewhat likely	<u>/</u>
	<ul> <li>d. Need of undertaking additional remedial</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	
	action, if necessary.	<ol> <li>Some future remedial actions may be necessary.</li> </ol>	<u>_/_</u>
	Subtotal (maximum = 10)		
2	. Administrative Feasibili	ty	
()	a. Coordination with	i) Minimal coordination is required.	<u></u>
$\cup$	other agencies.	ii) Required coordination is normal.	<u> </u>
		iii) Extensive coordination is required.	1
	Subtotal (maximum = 2)		
3)	3. Availability of Services and Materials		
<u>/</u> /	<ul> <li>a. Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes

ii) Will more than one vendor be available to provide a competitive bid?

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Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

22/12

Scor Basis for Evaluation During Analysis Factor Preliminary Screening Yes Are there significant short-term risks 1. Protection of community to the community that must be addressed? during remedial actions. (If answer is no, go to Factor 2.) ° Can the short-term risk be easily Yes controlled? Does the mitigative effort to control Yes short-term risk impact the community life-style? Subtotal (maximum = 4) Are there significant short-term risks 2. Environmental Impacts to the environment that must be addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures reliable to minimize potential impacts? Subtotal (maximum = 4) What is the required time to implement 3. Time to implement the the remedy? remedy. Required duration of the mitigative > 2yr. effort to control short-term risk. Subtotal (maximum = 2) Will the remedy be classified as 4. Permanence of the remedial permanent in accordance with Section alternative. 2.1(a), (b), or (c). (If answer is

yes, go to Factor 6.)

Subtotal (maximum = 5)

## IMPLEMENTABILITY

(Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Sco

No

483

1. ]	Technical Feasibility		
ä	a. Ability to construct technology.	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	
)		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
į		iii) Very difficult to construct and/or significant uncertainties in construction.	
	<ul><li>b. Reliability of technology.</li></ul>	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	
		ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	
	c. Schedule of delays	i) Unlikely	
	due to technical problems.	ii) Somewhat likely	
	d. Need of undertaking additional remedial	<ol> <li>No future remedial actions may be anticipated.</li> </ol>	_ <i>L</i> /
	action, if necessary.	<ol> <li>Some future remedial actions may be necessary.</li> </ol>	***************************************
	Subtotal (maximum = 10)		
2.	Administrative Feasibilit	Y	
1	a. Coordination with	i) Minimal coordination is required.	<del></del>
)	other agencies.	ii) Required coordination is normal.	
		iii) Extensive coordination is required.	<u>_\mu_</u>
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		
	a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes
/		(i) Will more than one vendor be available	Yes <u>//</u>

to provide a competitive bid?

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	An	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	2 0 = 1 4
			° Can the short-term risk be easily controlled?	Yes	_ 1 _ 0
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	_ 0 _ 2
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
7			Are the available mitigative measures reliable to minimize potential impacts?	Yes	<u> </u>
-		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	<pre>o What is the required time to implement </pre> the remedy?	2yr	1 0
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr	1 0
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)		

# IMPLEMENTABILITY (Maximum Score = 15)

	Ana	llysis Factor		Basis for Evaluation During Preliminary Screening			Score
	1.	Technical Feasibility					
		<ul> <li>Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		_	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.			2
			iii)	Very difficult to construct and/or significant uncertainties in construction.			1
-	ì	p. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
F	C	Schedule of delays due to technical	i)	Unlikely			2
		problems.	ii)	Somewhat likely			1
	d	<ol> <li>Need of undertaking additional remedial action, if necessary.</li> </ol>	i)	No future remedial actions may be anticipated.			2
			ii)	Some future remedial actions may be necessary.		_	1
	S	ubtotal (maximum = 10)					
	2. <u>A</u>	dministrative Feasibilit	Y				
	a	. Coordination with other agencies.	i)	Minimal coordination is required.			2
		•	ii)	Required coordination is normal.			1
			111)	Extensive coordination is required.			0
	S	ubtotal (maximum = 2)					
	3. <u>A</u>	vailability of Services nd Materials					
	a	<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration Ye generally commercially available No for the site-specific application?	<b>2</b> S		1 0
			11)	Will more than one vendor be available to provide a competitive bid?	_		1 0 9

- UST Excavated Soil Piles Enchtution 1 - Access Perticions

Table 4-1

12/13

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
<ol> <li>Protection of community during remedial actions.</li> </ol>	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0 <sup>-2</sup>
	° Can the short-term risk be easily controlled? Yes	1 0
Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community No life-style?	0
2. Environmental Impacts	O Are there significant short-term risks Yes to the environment that must be No addressed? (If answer is no, go to Factor 3.)	0
	Are the available mitigative measures Yes reliable to minimize potential impacts? No	<b>→</b> 0
Subtotal (maximum = 4)		
<ol><li>Time to implement the remedy.</li></ol>	° What is the required time to implement $\leq 2yr$ . the remedy? $\geq 2yr$ .	$\frac{1}{0}$
	<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> <li>2yr.</li> </ul>	1 0
Subtotal (maximum = 2)		
4. Permanence of the remedial alternative.	O Will the remedy be classified as permanent in accordance with Section No 2.1(a), (b), or (c). (If answer is	5 0
Subtotal (maximum = 5)	yes, go to Factor 6.)	

Subtotal (maximum = 5)

(

# IMPLEMENTABILITY (Maximum Score = 15)

	Aı	nal.	ysis Factor		Basis for Evaluation During Preliminary Screening		Score
	1.	. <u>T</u> e	echnical Feasibility				<del></del> -
		<b>a</b> .	. Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	_/	3
				ii)	Somewhat difficult to construct. No uncertainties in construction.		2
				iii)	Very difficult to construct and/or significant uncertainties in construction.		1
•		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		3
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
F		с.	Schedule of delays due to technical	i)	Unlikely		2
			problems.	ii)	Somewhat likely		1
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		2
			The control of the co	ii)	Some future remedial actions may be necessary.		1
		Su	btotal (maximum = 10)				
	2.	Adr	ministrative Feasibilit	<u>.</u> Y			
		a.	Coordination with	i)	Minimal coordination is required.	/	2
			other agencies.		Required coordination is normal.		1
				111)	Extensive coordination is required.		0
		Sut	ototal (maximum = 2)		·		J
	3.	Ava	nilability of Services I Materials				
-			Availability of prospective technologies.		Are technologies under consideration Yes generally commercially available No for the site-specific application?	·	1
				ii)	Will more than one vendor be available Yes to provide a competitive bid? No	<u> </u>	1 0

UST Excavided Soil Piles
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### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS

(Maximum Score = 25)

Analysis Factor

(

Basis for Evaluation During Preliminary Screening

_	<del></del>				
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	0 = 1 4
		Can the short-term risk be easily controlled?	Yes No		1 0
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	$\overline{}$	0 2
2.	. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u> </u>	0
	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes No	<u></u>	3
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr. 2yr.		1 0
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr. 2yr.	<u> </u>	1 0
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No		5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor B

Basis for Evaluation During Preliminary Screening

_				rieinminary Screening			
1	. <u>T</u>	echnical Feasibility		i) Minimal coordination is required 2  ii) Required coordination is normal 1  iii) Extensive coordination is required 0  i) Are technologies under consideration generally commercially available for the site-specific application? 1  ii) Will more than one vendor be available Yes 1			
	a	. Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.			3
			i) Not difficult to construct. No uncertainties in construct. No uncertainties in construct. No uncertainties in construct. No uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  i) Unlikely  ii) Somewhat likely  ii) No future remedial actions may be anticipated.  y.  ii) Some future remedial actions may be necessary.  ii) Minimal coordination is required.  iii) Required coordination is required.  iii) Extensive coordination is required.  es  i) Are technologies under consideration generally commercially available for the site-specific application?  ii) Will more than one vendor be available			2	
			iii)	difficult to construct. uncertainties in construct. uncertainties in construct. uncertainties in construct. uncertainties in construction.  y difficult to construct and/or nificant uncertainties in construction.  y reliable in meeting the specified cess efficiencies or performance goals.  ewhat reliable in meeting the specified cess efficiencies or performance goals.  ikely  ewhat likely  future remedial actions may be dicipated.  e future remedial actions may be dicipated.  ericular coordination is required.  furied coordination is required.  furied coordination is required.  furied coordination is required.  furied coordination is required.  technologies under consideration rally commercially available the site-specific application?	1		
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.			2 1 3 2 1 2 1
_			No uncertainties in construction.  ii) Somewhat difficult to construct. No uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  i) Unlikely  ii) Somewhat likely  ii) No future remedial actions may be anticipated.  ii) Some future remedial actions may be necessary.  2  i) Minimal coordination is required.  ii) Required coordination is required.  ii) Required coordination is required.  ii) Are technologies under consideration generally commercially available for the site-specific application?  ii) Will more than one vendor be available for the site-specific application?				
6	c.	Schedule of delays due to technical	i)	Unlikely			2 1 3 2 1 2 1
<u> </u>		problems.	ii)	Somewhat likely	2  on.  1  1  1  1  2  1  2  1  2  1  2  1  2  1  2  1  2  1  7  1  1		
	d.	Need of undertaking additional remedial action, if necessary	i)	No future remedial actions may be anticipated.		<del></del>	2 - 2 - 1 - 3 - 2 - 1 - 2 - 1
		, was meetessary.	ii)	Some future remedial actions may be necessary.	red 2  may be 1  red 2  may be 1  priced 2  may be 1  may be		
	Su	btotal (maximum = 10)	No uncertainties in construction.  ii) Somewhat difficult to construct. No uncertainties in construct and/or significant uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  y of  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  f delays ii) Somewhat likely  iii) Somewhat likely  dertaking remedial necessary.  ii) Some future remedial actions may be anticipated.  iii) Some future remedial actions may be necessary.  imum = 10)  Feasibility  on with i) Minimal coordination is required.  iii) Required coordination is required.  iiii) Extensive coordination is required.  iiii) Will more than one vendor be available Yes				
2.	Adı	ministrative Feasibilit	¥				
	a.	Coordination with	No uncertainties in construction.  ii) Somewhat difficult to construct. No uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  iii) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat likely  of undertaking tional remedial on, if necessary.  ii) No future remedial actions may be anticipated.  ii) Some future remedial actions may be necessary.  ii) Some future remedial actions may be necessary.  ii) Minimal coordination is required.  iii) Required coordination is required.  iii) Extensive coordination is required.  iii) Will more than one vendor be available for the site-specific application?				
		educi ageneres.	ii)	Required coordination is normal.			2 1 3 2 1 2 1
			111)	Extensive coordination is required.			
	Sul	ototal (maximum = 2)	process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  of delays i) Unlikely iii) Somewhat likely idertaking ii) No future remedial actions may be anticipated. inecessary.  ii) Some future remedial actions may be necessary.  iii) Some future remedial actions may be necessary.  iii) Minimal coordination is required.  iii) Required coordination is required.  iiii) Extensive coordination is required.  immm = 2) of Services  ty of i) Are technologies under consideration yes generally commercially available no for the site-specific application?  ii) Will more than one vendor be available Yes				
3.	Ava	ailability of Services  1 Materials	No uncertainties in construction.  ii) Somewhat difficult to construct. No uncertainties in construct. No uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  f i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat likely  ii) Somewhat likely  iii) Somewhat likely  taking ii) No future remedial actions may be anticipated.  iii) Some future remedial actions may be necessary.  iii) Some future remedial actions may be necessary.  iii) Required coordination is required.  iii) Required coordination is required.  iii) Extensive coordination is required.  iii) Are technologies under consideration generally commercially available for the site-specific application?  iii) Will more than one vendor be available Yes 1				
-	a.	Availability of prospective technologies.	i)	generally commercially available No.		_	1
			ii)		in construction.  It to construct. in construction.  O construct and/or retainties in construction.  meeting the specified cies or performance goals.  It is in meeting the specified cies or performance goals.  It is actions may be  It is actions may be  It is normal.  It is n		

UST Excaveded Soil Piles
Dispose In Official Cardfill

## Table 4-1

19//

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analys	is	Factor	•
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Basis for Evaluation During Preliminary Screening

	_					
	1	. Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u>~</u>	0 <del>-</del> 4
			° Can the short-term risk be easily controlled?	Yes No		1 0
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	_	0 2
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u></u>	0
6		Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3
	3.	Time to implement the remedy.	What is the required time to implement the remedy?	<pre>≤ 2yr.</pre> ≥ 2yr.		1
			Required duration of the mitigative effort to control short-term risk.	<pre>≤ 2yr.</pre> <pre>&gt; 2yr.</pre>		1
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No		5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

1. Technical Feasibility  a. Ability to construct technology.  i) Not difficult to construct. No uncertainties in construct. No uncertainties in construct. No uncertainties in construction.  ii) Very difficult to construct and/or significant uncertainties in construction.  b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		Scor
No uncertainties in construct.  ii) Somewhat difficult to construct. No uncertainties in construct and/or significant uncertainties in construction.  b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		<del></del>
ii) Somewhat difficult to construct. No uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	_/	3
b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		2
b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		1
process efficiencies or performance goals.		3
C. Schedule of dolars	<u> </u>	2
due to technical		2
problems. ii) Somewhat likely		1
<ul> <li>d. Need of undertaking         <ul> <li>i) No future remedial actions may be additional remedial</li> <li>action, if necessary.</li> </ul> </li> </ul>		2
ii) Some future remedial actions may be necessary.		1
Subtotal (maximum = 10)		
2. Administrative Feasibility		
<ul> <li>a. Coordination with         i) Minimal coordination is required.</li> </ul>		2
ii) Required coordination is normal.		1
iii) Extensive coordination is required.		0
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of i) Are technologies under consideration Yes prospective generally commercially available No for the site-specific application?		1
ii) Will more than one vendor be available Yes to provide a competitive bid? No		1 0

- UST Expanded Soil Piles Cap in RR ROW Walnut Visual Way

Table 4-1

19/11

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Α	nalysis Factor	Basis for Evaluation During Preliminary Screening			Scor
	1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.) hours let along recent	Yes No		0-4
			° Can the short-term risk be easily controlled?	Yes No	<u> </u>	1
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No		0 <b>4</b>
			Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3
		Subtotal (maximum = 4)				
	3.	Time to implement the remedy.	O What is the required time to implement of the remedy?	2yr. 2yr.	<u> </u>	1 0
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr. 2yr.	<u></u>	1
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No		5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)			

Subtotal (maximum = 5)

(

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

# Basis for Evaluation During Preliminary Screening

		Preliminary Screening	Score
	1. Technical Feasibility		30016
	<ul> <li>a. Ability to constru technology.</li> </ul>		3
		<ul><li>No uncertainties in construct.</li></ul>	
	b. Reliability of	iii) Very difficult to construct and/or significant uncertainties in construction.	1
-	technology.	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	3
A	c. Schedule of delays	process efficiencies or performance goals	<u></u>
<u>(</u> ,	due to technical problems.	<ul><li>i) Unlikely</li><li>ii) Somewhat likely</li></ul>	2
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	1 2
	Subtotal (maximum = 10)	ii) Some future remedial actions may be necessary.	1
2	2. Administrative Feasibili	<u>ty</u>	
	<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required	_
		<ol><li>Required coordination is normal</li></ol>	2
	Subtotal (maximum = 2)	iii) Extensive coordination is required.	0
3.	Availability of Services and Materials		
(	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No</li> <li>for the site-specific application?</li> </ul>	
		ii) Will more than one vendor be available Yes to provide a competitive bid?	1 0 11

- UST Excavited soil Piles Lime stabilization/Cap in PR Row

## Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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Basis for Evaluation During Preliminary Screening

	Preliminary Screening	Score
1. Protection of community during remedial actions	<ul> <li>Are there significant short-term risks Yes to the community that must be addressed? No</li></ul>	0=-
Subtotal (maximum = 4)	Ontrolled?  Does the mitigative effort to control short-term risk impact the community  No  Yes  No  Yes  No  No	
2. Environmental Impacts	Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to 4	)
Subtotal (maximum = 4)	<ul> <li>Are the available mitigative measures</li> <li>reliable to minimize potential impacts?</li> <li>No</li> </ul>	
<ol> <li>Time to implement the remedy.</li> </ol>	<ul> <li>What is the required time to implement &lt; 2yr. 1</li> <li>Required duration of the mitigative effort to control short-term risk. </li> </ul>	
Subtotal (maximum = 2)	effort to control short-term risk. $\leq 2yr$ . $1$	
4. Permanence of the remedial alternative.  Subtotal (maximum = 5)	O Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is No	

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

# Basis for Evaluation During Preliminary Screening

	Preliminary Computing	
<ol> <li>Technical Feasibil</li> </ol>	Preliminary Screening	Sco
a. Ability to constechnology.	truct i) Not diffic	
	ii) Somewhat difficult to construct.	3
b. Reliability of technology.	significant uncertainties and/or	$\frac{1}{\sqrt{1}}$
arogy.	process efficiencies or performance goals	<b>∠</b> 3
c. Schedule of delays due to technical problems.	process efficiencies or performance goals.	2
<ul> <li>d. Need of undertaking additional remedial action, if necessary</li> </ul>	anticipated.	2 1
Subtotal (maximum = 10)	fi) Some future remedial actions may be necessary.	2
2. Administrative Feasibil	itv	
<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is many	
	coordination in	2
Subtotal (maximum = 2)	iii) Extensive coordination is required.	1
3. Availability of Services and Materials	-	0
<ul> <li>Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration generally commercially available Yes (ii) Will many its specific application?	_ 1
	ii) Will more than one vendor be available Yes to provide a competitive bid?	_ 0 _ 1 _ 0
		1 0 119

SEDIMENTS

DDA Pend Sediments
No Action

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

		Preliminary Screening		30016
1.	Protection of community during remedial actions.	O Are there significant short-term risks Ye to the community that must be addressed? No (If answer is no, go to Factor 2.)		0 <del>-</del> 4
		° Can the short-term risk be easily controlled? Yes	s	1
	Subtotal (maximum = 4)	Obes the mitigative effort to control short-term risk impact the community life-style? No	s	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	s <u> </u>	0 4
	Subtatal (maying - 4)	O Are the available mitigative measures reliable to minimize potential impacts? No		3
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	What is the required time to implement < 2yı the remedy? > 2yı	: _	1 0
		<ul> <li>Required duration of the mitigative &lt; 2yr effort to control short-term risk.</li> </ul>	: _	1 0
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	permanent in accordance with Section No 2.1(a), (b), or (c). (If answer is		5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

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# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

# Basis for Evaluation During Preliminary Screening

	Preliminary Screening	Score
1. Technical Feasibility		
<ul> <li>a. Ability to constructechnology.</li> </ul>	t i) Not difficult to construct. No uncertainties in construction.	<u>√</u> 3
	<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2
h Doliner	iii) Very difficult to construct and/or significant uncertainties in construction.	1
b. Reliability of technology.	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	3
	<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	2
c. Schedule of delays due to technical	i) Unlikely	/ 2
problems.	ii) Somewhat likely	2
<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	1
Color of the color	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	1
Subtotal (maximum = 10)		
2. Administrative Feasibilit	E <b>Y</b>	
<ul> <li>a. Coordination with other agencies.</li> </ul>	<ol> <li>Minimal coordination is required.</li> </ol>	/ 2
	ii) Required coordination is normal.	
• • • •	iii) Extensive coordination is required.	<u> </u>
Subtotal (maximum = 2)	-	0
3. Availability of Services and Materials		
<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	<u>1</u> 0
	ii) Will more than one vendor be available Yes to provide a competitive bid?	

DDA Sediments Metals

Lin Access

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

CTIVENESS ///

Analysis Factor

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Basis for Evaluation During Preliminary Screening

	_		Preliminary Screening			2001
	1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u>8</u> 4	0 4
			Can the short-term risk be easily controlled?	Yes No	0	1
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	<u> </u>	0 2
-	2.	. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u>_</u>	0 4
6		Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes No	0	3
	3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr.		1 0
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr. 2yr.	<u></u>	1 0
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	<u>0</u>	<u>5</u> C
		Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	ii) Will more than one vendor be available Yes		
a. Availability of prospective technologies.	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	<u>+</u>	1
<ul> <li>Availability of Services and Materials</li> </ul>			
Subtotal (maximum = 2)			
	iii) Extensive coordination is required.		О
agains red.	ii) Required coordination is normal.		1
a. Coordination with other agencies.	i) Minimal coordination is required.	2	2
. Administrative Feasibili	<u>ty</u>		
Subtotal (maximum = 10)			
·	<ol> <li>Some future remedial actions may be necessary.</li> </ol>		1
additional remedial	anticipated	2	2
	ii) Somewhat likely		1
due to technical	i) Unlikely		2
	<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>		2
<ul> <li>b. Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	3	3
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
	<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
<ul> <li>a. Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	3	3
1. Technical Feasibility			
	a. Ability to construct technology.  b. Reliability of technology.  c. Schedule of delays due to technical problems.  d. Need of undertaking additional remedial action, if necessary.  Subtotal (maximum = 10)  Administrative Feasibili  a. Coordination with other agencies.  Subtotal (maximum = 2)  Availability of Services and Materials  a. Availability of prospective	a. Ability to construct technology.  i) Not difficult to construct. No uncertainties in construct and/or significant uncertainties in construction.  b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  c. Schedule of delays due to technical problems.  ii) Somewhat likely  d. Need of undertaking additional remedial actions may be anticipated.  ii) Some future remedial actions may be anticipated.  iii) Some future remedial actions may be necessary.  Subtotal (maximum = 10)  Administrative Feasibility  a. Coordination with other agencies.  ii) Minimal coordination is required.  iii) Required coordination is required.  Subtotal (maximum = 2)  Availability of Services and Materials  i) Are technologies under consideration yes generally commercially available.	a. Ability to construct technology.  i) Not difficult to construct. No uncertainties in construct. No uncertainties in construct. No uncertainties in construction.  iii) Very difficult to construct and/or significant uncertainties in construction.  b. Reliability of technology.  i) Very reliable in meeting the specified process efficiencies or performance goals.  ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.  c. Schedule of delays due to technical problems.  ii) Somewhat likely  d. Need of undertaking additional remedial actions may be anticipated. action, if necessary.  ii) Some future remedial actions may be necessary.  Subtotal (maximum = 10)  Administrative Feasibility  a. Coordination with other agencies.  ii) Minimal coordination is required.  ii) Required coordination is required.  Subtotal (maximum = 2)  Availability of Services and Materials  a. Availability of prospective  i) Are technologies under consideration yes prospective  generally commercially available

DDH ond Sediments

Table 4-1

at On-Site Lines Landfill

June, Metals

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes Ø
		° Can the short-term risk be easily controlled?	Yes No 💆
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes O
	Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes 3
3.	Time to implement the remedy.	O What is the required time to implement of the remedy?	2yr
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr 2yr
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 🙎 No 💍
	Subtotal (maximum = 5)	yes, go to ractor o.)	

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

# Basis for Evaluation During Preliminary Screening

Scor€

-			
נ	. Technical Feasibility		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2 2
		iii) Very difficult to construct and/or significant uncertainties in construction.	1
	<ul> <li>Reliability of technology.</li> </ul>	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	<u> 3</u>
<b>~</b> 1.		ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	2
	<ul><li>c. Schedule of delays due to technical</li></ul>	i) Unlikely	2
•	problems.	ii) Somewhat likely	1 1
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	2
		<ul><li>Some future remedial actions may be necessary.</li></ul>	1
	Subtotal (maximum = 10)		
2.	Administrative Feasibili	<u>ty</u>	
	<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	2
		ii) Required coordination is normal.	1 (1
		iii) Extensive coordination is required.	C
	Subtotal (maximum = 2)		<del></del>
3.	Availability of Services and Materials		_
	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration yes generally commercially available No for the site-specific application?</li> </ul>	;
		ii) Will more than one vendor be available Yes to provide a competitive bid?	<del>-</del> ;

SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor Basis for Evaluation During Preliminary Screening Scor 1. Protection of community Are there significant short-term risks during remedial actions. to the community that must be addressed? Yes 0 (If answer is no, go to Factor 2.) ° Can the short-term risk be easily controlled? Yes O Does the mitigative effort to control short-term risk impact the community Yes 0 life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) ° Are the available mitigative measures reliable to minimize potential impacts? Subtotal (maximum = 4) 3. Time to implement the ° What is the required time to implement remedy. the remedy? Required duration of the mitigative effort to control short-term risk. ≤ 2yr.
≥ 2yr. Subtotal (maximum = 2)

4. Permanence of the remedial alternative.

Subtotal (maximum = 5)

(

Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During
Preliminary Screening

_						
1	. <u>Te</u>	echnical Feasibility				
	<b>a</b> .	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	3	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	3	3
<b>-</b> .			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	2	- 2
	с.	Schedule of delays due to technical	i)	Unlikely		2
_		problems.	ii)	Somewhat likely		1
	đ.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.	2	. 2
		section, it indicasally.	ii)	Some future remedial actions may be necessary.		1
	Sul	ototal (maximum = 10)				
2.	Adr	ninistrative Feasibilit	·Υ			
	a.	Coordination with other agencies.	1)	Minimal coordination is required.		2
			11)	Required coordination is normal.	9	1
			111)	Extensive coordination is required.	0	<b>(</b> 0
	Sub	total (maximum = 2)				` ~
3.	Ava	ilability of Services Materials				
		Availability of prospective technologies.	-	Are technologies under consideration Yes generally commercially available No for the site-specific application?		1 C
			ii)	Will more than one vendor be available Yes to provide a competitive bid?	<u>+</u>	1 C

DDH Crike Pord Sedements Minis & Metals

Table 4-1

Excava	& / ,	Treat	net
		<del></del>	tools.
3/19		300	

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

+ Allender 2

Analysis Factor

Basis for Evaluation During Preliminary Screening

70/9

Scor

		Preliminary Screening	7		Sco:
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	9	0 4
		Can the short-term risk be easily controlled?	Yes No		1
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0	0 <b>4</b>
	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes No	3	3
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	<pre>     2yr.     2yr. </pre>		1
		Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.		;
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	<u>5</u>	4 :
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

			rreliminary Screening		
	1.	Technical Feasibility			
		<ul> <li>Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>		3
			<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
			iii) Very difficult to construct and/or significant uncertainties in construction.		1
	i	<ul> <li>Reliability of technology.</li> </ul>	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>		3
			ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	2	2
	(	c. Schedule of delays due to technical	i) Unlikely		2
<u> </u>		problems.	ii) Somewhat likely		1
	C	<ol> <li>Need of undertaking additional remedial action, if necessary.</li> </ol>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	2	2
			<ol> <li>Some future remedial actions may be necessary.</li> </ol>	9	1
	S	Subtotal (maximum = 10)			
2	. <u>A</u>	dministrative Feasibilit	<u>sy</u>		
	a	. Coordination with other agencies.	i) Minimal coordination is required.		2
		other agenties.	ii) Required coordination is normal.	1	1
			iii) Extensive coordination is required.		0
	S	ubtotal (maximum = 2)			Ū
3	. A	vailability of Services nd Materials			
	a	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	<u>_</u>	1 C
			ii) Will more than one vendor be available Yes to provide a competitive bid? No		;

DDA-Court 3 Pond Sedments Metals

> Protection of community during remedial actions.

Analysis Factor

Sold States

Table 4-1	ale	and a	<del>-</del>
SHORT-TERM/LONG-TERM EFFECTIVENESS  (Maximum Score = 25)  + actes	live	3	
Basis for Evaluation During Preliminary Screening			Sco
Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0	0
° Can the short-term risk be easily controlled?	Yes No		1
Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	<u>Q</u>	0 2

6

### Subtotal (maximum = 4)

Subtotal (maximum = 4)

2. Environmental Impacts

Time to implement the remedy.

o What is the required time to implement ≤ 2yr. the remedy? > 2yr.

Are there significant short-term risks

Are the available mitigative measures reliable to minimize potential impacts?

to the environment that must be addressed? (If answer is no, go to

Factor 3.)

Required duration of the mitigative effort to control short-term risk.
 2yr.
 2yr.

### Subtotal (maximum = 2)

4. Permanence of the remedial alternative.

Subtotal (maximum = 5)

Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.) Yes 5 No c

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor

# Basis for Evaluation During Preliminary Screening

	1.	Technical Feasibility					
		<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		B	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		<u>&amp;</u>	2
			iii)	Very difficult to construct and/or significant uncertainties in construction			1
		<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals	•	B	3
			ii)	Somewhat reliable in meeting the specifie process efficiencies or performance goals	d ·	2	2
F		c. Schedule of delays	i)	Unlikely			2
<u>C</u> .		<pre>due to technical problems.</pre>	ii)	Somewhat likely		1	1
		d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.		2	- 2
		action, if necessary.	ii)	Some future remedial actions may be necessary.			1
		Subtotal (maximum = 10)					
	2.	Administrative Feasibilit	<u> Y</u>				
		a. Coordination with other agencies.	1)	Minimal coordination is required.		0	<u> </u>
			ii)	Required coordination is normal.		1	Ø.
			111)	Extensive coordination is required.		<u> </u>	<u>(</u> 0
		Subtotal (maximum = 2)					
	3.	Availability of Services and Materials				-	
(		<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	<u>_</u>	C
			ii)	Will more than one vendor be available to provide a competitive bid?	Yes No	<u>_</u>	:
						i 2	43

DDA Pond & Creek Sediments

Excavation/ Lime Stabilization / Cap in RR ROW

### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor Basis for Evaluation During Score Preliminary Screening Are there significant short-term risks 1. Protection of community Yes during remedial actions. to the community that must be addressed? (If answer is no, go to Factor 2.) ° Can the short-term risk be easily controlled? Does the mitigative effort to control Yes short-term risk impact the community life-style? Subtotal (maximum = 4) 2. Environmental Impacts Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures reliable to minimize potential impacts? Subtotal (maximum = 4) 3. Time to implement the What is the required time to implement remedy. the remedy? Required duration of the mitigative ≤ 2yr. \_\_\_\_
> 2yr. \_\_\_\_ effort to control short-term risk. Subtotal (maximum = 2) 4. Permanence of the remedial Will the remedy be classified as alternative. permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.) Subtotal (maximum = 5)

3

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	Preliminary Screening	
1. Technical Feasibility		
<ul> <li>a. Ability to constructechnology.</li> </ul>	t i) Not difficult to construct. No uncertainties in construction.	3
	<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	1
<ul> <li>b. Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	<u></u>
c. Schedule of delays due to technical	i) Unlikely	2
problems.	ii) Somewhat likely	1
<ul> <li>d. Need of undertaking additional remedial action, if necessary</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	2
	ii) Some future remedial actions may be necessary.	1
Subtotal (maximum = 10)		
2. Administrative Feasibil	ity	
a. Coordination with other agencies.	i) Minimal coordination is required.	2
•	ii) Required coordination is normal.	1
	iii) Extensive coordination is required.	0
Subtotal (maximum = 2)		<del></del>
3. Availability of Service and Materials	<u>s</u>	
<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	1 0
	ii) Will more than one vendor be available Yes to provide a competitive bid?	1 0 14

VST Arreal Creek Sedements No Action

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

A	nalysis Factor	Basis for Evaluation During Preliminary Screening	Score
1	. Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	✓ 0 <sup>-1</sup>
		° Can the short-term risk be easily Yes controlled?	10
	Subtotal (maximum = 4)	<pre>o Does the mitigative effort to control Yes short-term risk impact the community No life-style?</pre>	_ 0 2
	. Environmental Impacts	O Are there significant short-term risks Yes to the environment that must be No addressed? (If answer is no, go to Factor 3.)	_ 0
		O Are the available mitigative measures Yes reliable to minimize potential impacts? No	<b>⊘</b> 3 0
•	Subtotal (maximum = 4)		
3	. Time to implement the remedy.	<pre>o What is the required time to implement &lt; 2yr the remedy? &gt; 2yr</pre>	_ 1 0
		<pre>o Required duration of the mitigative effort to control short-term risk.</pre> <pre>&lt; 2yr</pre> <pre>&gt; 2yr</pre>	10
	Subtotal (maximum = 2)		
4	. Permanence of the remedial alternative.	<ul> <li>Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is</li> </ul>	<b>∑</b> 5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)	

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	1.	. <u>Technical Feasibility</u>				
		<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		<u></u>
			ii)	Somewhat difficult to construct. No uncertainties in construction.		_ 2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		_ 1
-		<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.		_ 3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
F		c. Schedule of delays due to technical	i)	Unlikely		_ 2
		problems.	ii)	Somewhat likely	<del></del>	_ 1
		<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>		No future remedial actions may be anticipated.		_ 2
		dooron, it necessary.		Some future remedial actions may be necessary.		_ 1
		Subtotal (maximum = 10)				
	2.	Administrative Feasibili	<u>ty</u>			
		<ul> <li>a. Coordination with other agencies.</li> </ul>	i)	Minimal coordination is required.		_ 2
		other agenties.	ii)	Required coordination is normal.		_ 1
			iii)	Extensive coordination is required.		_ 0
		Subtotal (maximum = 2)				
	3.	Availability of Services and Materials				
		<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	es <u>/</u>	1 0
				Will more than one vendor be available Ye to provide a competitive bid?		- 1 - 0 - 151

UST Area | Creek Schments Limit Access

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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## Basis for Evaluation During Preliminary Screening

	_		Preliminary Screening	acore
	1.	Protection of community during remedial actions.	Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	2 4
			<pre>o Can the short-term risk be easily controlled? Yes</pre>	_ 1 0
		Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	_ 0 _ 2
•	2.	Environmental Impacts	Are there significant short-term risks Yes to the environment that must be addressed? (If answer is no, go to Factor 3.)	_ 0 _ 4
		Subtotal (maximum = 4)	Of Are the available mitigative measures Yes reliable to minimize potential impacts? No	3 0
	3.	Time to implement the remedy.	What is the required time to implement < 2yr the remedy? < 2yr	- 1 0
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> <li>2yr.</li> </ul>	1 0
		Subtotal (maximum = 2)		
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)	

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. technology. 3 No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. 1 b. Reliability of i) Very reliable in meeting the specified technology. 3 process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical 2 problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be additional remedial 2 anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid?

- UST Arral Creck Schments Execution 10n - 5 te Disposed

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

		(maximum Score = 25)		
-	Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
:	<ol> <li>Protection of community during remedial actions.</li> </ol>		Yes	0 <sup>-</sup> -
			Yes	1 0
	Subtotal (maximum = 4)	SDOTT-torm might in a set of	Yes Yo	0 2
2	. Environmental Impacts	IN THE COURSE AS A S. A.	res <u>v</u>	0 4
<b>3</b>	Subtotal (maximum = 4)	Are the available mitigative measures Y reliable to minimize potential impacts? N	'es	3 0
_	•			
3.	. Time to implement the remedy.	What is the required time to implement < 2 the remedy?	yr	1
		Required duration of the mitigative effort to control short-term risk.	yr	1 0
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

Subtotal (maximum = 5)

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

_		Preliminary Screening	Score
:	1. <u>Technical Feasibility</u>		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	2
		iii) Very difficult to construct and/or significant uncertainties in construction.	1
-	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	<u> </u>
		ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	2
	c. Schedule of delays due to technical	i) Unlikely	2
	problems.	ii) Somewhat likely	
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	2
	,	ii) Some future remedial actions may be necessary.	1
	Subtotal (maximum = 10)		
2.	Administrative Feasibili	<u>ty</u>	
	<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	2
	dener agencies.	ii) Required coordination is normal.	1
		iii) Extensive coordination is required.	0
	Subtotal (maximum = 2)	4	
3.	Availability of Services and Materials		
-	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	1 0
		ii) Will more than one vendor be available Yes to provide a competitive bid?	1 0 0

UST Area [ Creek Sectionents Exercition / Off-Sile Disposal

## Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Ana	lysis	Factor
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## Basis for Evaluation During Preliminary Screening

			Preliminary Screening			2core
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	0 <del>-</del> 4
			° Can the short-term risk be easily controlled?	Yes No		1
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u> </u>	0
6		Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3 0
	3.	Time to implement the	What is the required time to implement <	· 2	/	,
		remedy.	the remedy?	2yr. 2yr.		0
			<pre>Required duration of the mitigative effort to control short-term risk.</pre>	2yr. 2yr.		1
		Subtotal (maximum = 2)				
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	<u> </u>	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)			

# IMPLEMENTABILITY (Maximum Score = 15)

A1	nalysis Factor		Basis for Evaluation During Preliminary Screening			Score
1.	. <u>Technical Feasibility</u>					
	<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.			3
		ii)	Somewhat difficult to construct. No uncertainties in construction.			2
		iii)	Very difficult to construct and/or significant uncertainties in construction.			1
	<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
		ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		<del></del>	2
	c. Schedule of delays due to technical	i)	Unlikely			2
_'	problems.	ii)	Somewhat likely			1
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i)	No future remedial actions may be anticipated.			2
	action, it necessary.	ii)	Some future remedial actions may be necessary.			1
	Subtotal (maximum = 10)					
2.	Administrative Feasibilit	<u>.</u> Y				
	a. Coordination with	i)	Minimal coordination is required.			2
	other agencies.	ii)	Required coordination is normal.			1
		iii)	Extensive coordination is required.		$\sqrt{}$	0
	Subtotal (maximum = 2)					
3.	Availability of Services and Materials					
	<ul> <li>Availability of prospective technologies.</li> </ul>	i)		Yes No		1
		ii)		Yes No		1 0 763

UST Arra | Creek Soluments Excavation / Treatment / On- 1: to Disposal

### Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

			(1127, 1127)	
	Ar	nalysis Factor	Basis for Evaluation During Preliminary Screening	Score
	1.	Protection of community during remedial actions.	Of Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	0-
			Can the short-term risk be easily controlled? Yes No	1 0
		Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community No life-style?	0 2
-	2.	Environmental Impacts	<ul> <li>Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)</li> </ul>	0 4
6			Are the available mitigative measures reliable to minimize potential impacts? No	3
_		Subtotal (maximum = 4)		
	3.	Time to implement the remedy.	<pre>o What is the required time to implement</pre>	1 0
			<pre>Property of Required duration of the mitigative effort to control short-term risk.</pre> <pre></pre>	1 0
		Subtotal (maximum = 2)		
	4.	Permanence of the remedial alternative.	o Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	5 0
		Subtotal (maximum = 5)	yes, go to Factor 6.)	

Subtotal (maximum = 5)

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## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely d. Need of undertaking i) No future remedial actions may be additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid?

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Ust Ama | Creek Sediments Execution / Tratment / Off - 15te Disposal

### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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# Basis for Evaluation During Preliminary Screening

		Preliminary Screening			
1.	Protection of community during remedial actions.		Yes No	<u> </u>	0 - 4
			Yes No		1
	Subtotal (maximum = 4)		Yes No		0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No		0 <b>4</b>
<b>\$</b>		Are the available mitigative measures reliable to minimize potential impacts?	Yes No	<u></u>	3
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr. 2yr.		1
		<pre>o Required duration of the mitigative</pre>	2yr. 2yr.		1 0
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	·	5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility a. Ability to construct i) Not difficult to construct. 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be 1 necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration prospective generally commercially available No technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid? No

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UST Frea | Creek Sediments

Excavation/ lime stasdization/ Cap In RR ROW

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

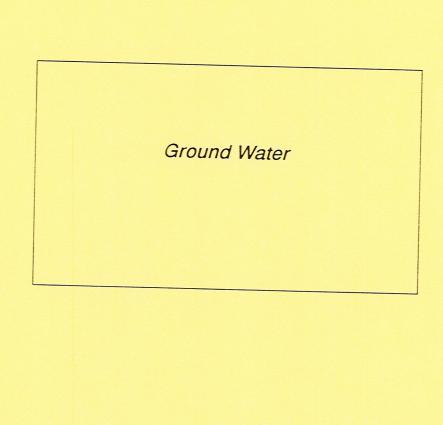
A:	nalysis Factor	Basis for Evaluation During Preliminary Screening	1 )		Score
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	0 - 4
		° Can the short-term risk be easily controlled?	Yes No		1 0
	Subtotal (maximum = 4)	Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	<u> </u>	0 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u></u>	0 <b>4</b>
		Are the available mitigative measures reliable to minimize potential impacts?	Yes No		3
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr. 2yr.	<u> </u>	1
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No		5 0
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

37:

#### Table 4-2

## IMPLEMENTABILITY (Maximum Score = 15)

A _	nalysis Factor	Basis for Evaluation During Preliminary Screening		Score
1	. Technical Feasibility			
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	<del></del>	3
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
		iii) Very difficult to construct and/or significant uncertainties in construction.		1
	b. Reliability of technology.	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>		2
7	c. Schedule of delays due to technical	i) Unlikely		2
•	problems.	ii) Somewhat likely		1
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>		2
		<ul><li>ii) Some future remedial actions may be necessary.</li></ul>		1
	Subtotal (maximum = 10)			
2.	Administrative Feasibilit	E <b>Y</b>		
	a. Coordination with	i) Minimal coordination is required.		2
	other agencies.	ii) Required coordination is normal.		1
		iii) Extensive coordination is required.		0
	Subtotal (maximum = 2)			·
3.	Availability of Services and Materials			
	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration yes generally commercially available No for the site-specific application?</li> </ul>		1
		ii) Will more than one vendor be available Yes to provide a competitive bid?		1 0 / 7



No Action

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

- 13

Analysis Factor

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Basis for Evaluation During Preliminary Screening

1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No		C 4
		° Can the short-term risk be easily controlled?	Yes No		1
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		(
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No		(
	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes No	<u> </u>	
3.	Time to implement the remedy.		2yr. 2yr.		
			2yr. 2yr.		
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	/	
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

\_\_\_\_\_\_

	1. <u>Technical Feasibility</u>		·
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		iii) Very difficult to construct and/or significant uncertainties in construction.	
•	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
		ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	<u> </u>
	<ul> <li>c. Schedule of delays due to technical</li> </ul>	i) Unlikely	
	problems.	ii) Somewhat likely	
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ol> <li>No future remedial actions may be anticipated.</li> </ol>	
	, in including,	<ul><li>ii) Some future remedial actions may be necessary.</li></ul>	<u> </u>
	Subtotal (maximum = 10)		
2	. Administrative Feasibili	<u>ty</u>	
	a. Coordination with	i) Minimal coordination is required.	/
	other agencies.	ii) Required coordination is normal.	
		iii) Extensive coordination is required.	<del></del>
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		
	<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	
		ii) Will more than one vendor be available Yes to provide a competitive bid?	

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Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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Basis for Evaluation During Preliminary Screening

14/10

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		Preliminary Screening			
1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	_	0 4
		° Can the short-term risk be easily controlled?	Yes No		1
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		C 2
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No		
	Cubbabal (noutron - A)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes No		
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre>≤ 2yr.</pre> <pre>&gt; 2yr.</pre>		
		Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	<u>~</u>	
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	$\overline{Z}$	
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

_			or centring		
1	1. Technical Feasibility				
	<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.		
		ii)	Somewhat difficult to construct. No uncertainties in construction.		
		iii)	Very difficult to construct and/or significant uncertainties in construction	١.	-
	<ul> <li>Reliability of technology.</li> </ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals	i.	
		ii)	Somewhat reliable in meeting the specific process efficiencies or performance goals	d.	
•	c. Schedule of delays due to technical	i)	Unlikely		
	problems.	ii)	Somewhat likely		
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	i)	No future remedial actions may be anticipated.		
	, was a second of the second o	ii)	Some future remedial actions may be necessary.		
	Subtotal (maximum = 10)				
2.	Administrative Feasibilit	¥			
	a. Coordination with	1)	Minimal coordination is required.		
	other agencies.		Required coordination is normal.		
			Extensive coordination is required.		<u></u>
	Subtotal (maximum = 2)		The state of the s		
3.	Availability of Services and Materials				
	<ul> <li>Availability of prospective technologies.</li> </ul>	9	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	
		11) ) 1	dill more than one vendor be available to provide a competitive bid?	Yes No	

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#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

2/9

Analysis Factor

Basis for Evaluation During Preliminary Screening

_					
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	Z	(
		° Can the short-term risk be easily controlled?	Yes No		:
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No		
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u></u>	
		Are the available mitigative measures reliable to minimize potential impacts?	Yes No		
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	<pre>&lt; 2yr.</pre> <pre>&gt; 2yr.</pre>		
		Required duration of the mitigative effort to control short-term risk.	<pre>≤ 2yr.</pre> > 2yr.		
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Ye: No	<u> </u>	
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

\_\_\_\_\_

1.	Te	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		<del></del> -
			ii)	Somewhat difficult to construct. No uncertainties in construction.		_
			iii)	Very difficult to construct and/or significant uncertainties in construction.		
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		-
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
	с.	Schedule of delays due to technical	i)	Unlikely		
		problems.	ii)	Somewhat likely		-
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
		Toolon, it necessary.	ii)	Some future remedial actions may be necessary.		_7
:	Sub	total (maximum = 10)				
. <u>/</u>	\dn	ninistrative Feasibilit	· <b>y</b>			
a		Coordination with other agencies.	1)	Minimal coordination is required.		
			ii)	Required coordination is normal.		
			111)	Extensive coordination is required.		
S	ub	total (maximum = 2)				
. <u>A</u>	va nd	ilability of Services Materials				
a	1	Availability of prospective technologies.		generally commencially to the	'es lo	<u>/</u>
			11)	<b>ta</b> mmanidal a al 1111	'es lo	<u>~</u>

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EMPRESENTED DISCHARGE TO SANTER SENE

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

2/8

Analysis Factor

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Basis for Evaluation During Preliminary Screening

_				
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	_/
		° Can the short-term risk be easily controlled?	Yes No	
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u></u>
		Are the available mitigative measures reliable to minimize potential impacts?	Yes No	
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.		<pre>     2yr.     2yr. </pre>	
		Required duration of the mitigative effort to control short-term risk.	2yr. 2yr.	<u>_</u>
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

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Analysis Factor

Basis for Evaluation During Preliminary Screening

Sca

	1. Technical Feasibility		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	-
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	<del></del>
		iii) Very difficult to construct and/or significant uncertainties in construction.	
-	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	
	<ul><li>c. Schedule of delays due to technical</li></ul>	i) Unlikely	
	problems.	ii) Somewhat likely	
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	
		<ol><li>Some future remedial actions may be necessary.</li></ol>	
	Subtotal (maximum = 10)		
;	2. Administrative Feasibilit	¥	
	<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	
	-	ii) Required coordination is normal.	
		iii) Extensive coordination is required.	
	Subtotal (maximum = 2)		<del></del>
3	3. Availability of Services and Materials		
(	<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration yes generally commercially available No for the site-specific application?</li> </ul>	
		ii) Will more than one vendor be available Yes to provide a competitive bid?	

DEA THELLOW CHW

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

12/10

Analysis Factor

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Basis for Evaluation During Preliminary Screening

Sco

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No
	Subtotal (maximum = 4)	Of Are the available mitigative measures reliable to minimize potential impacts?	Yes
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr. <u> </u>
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No
	Subtotal (maximum = 5)	yes, go to Factor 6.)	

1. Technical Feasibility		
<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	-
	<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
	iii) Very difficult to construct and/or significant uncertainties in construction.	<del></del>
<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
	<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	
<ul> <li>c. Schedule of delays due to technical</li> </ul>	i) Unlikely	
problems.	ii) Somewhat likely	
<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	
	ii) Some future remedial actions may be necessary.	
Subtotal (maximum = 10)		
. Administrative Feasibilit	Ý.	
<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	
	ii) Required coordination is normal.	
	iii) Extensive coordination is required.	
Subtotal (maximum = 2)		
Availability of Services and Materials		
<ul> <li>a. Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	<u></u>
	ii) Will more than one vendor be available Yes to provide a competitive bid?	

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Sco

Analysis Factor

Basis for Evaluation During Preliminary Screening

1. Protection of community Are there significant short-term risks Yes during remedial actions. to the community that must be addressed? No (If answer is no, go to Factor 2.) ° Can the short-term risk be easily Yes controlled? Ones the mitigative effort to control Yes short-term risk impact the community No life-style? Subtotal (maximum = 4) Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures Yes reliable to minimize potential impacts? Subtotal (maximum = 4) What is the required time to implement ≤ 2yr. \_/
> 2yr. \_/ the remedy? Required duration of the mitigative ≤ 2yr. \_\_\_
> 2yr. \_\_\_ effort to control short-term risk. Will the remedy be classified as

#### Subtotal (maximum = 2)

2. Environmental Impacts

3. Time to implement the

remedy.

- 4. Permanence of the remedial alternative.
- permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

Yes No 🔽

Subtotal (maximum = 5)

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1. Technical Feasibility		
<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
	<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
	iii) Very difficult to construct and/or significant uncertainties in construction.	<del></del>
b. Reliability of technology.	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	1
	<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	
<ul> <li>c. Schedule of delays due to technical</li> </ul>	i) Unlikely	
problems.	ii) Somewhat likely	
<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	
	<ol> <li>Some future remedial actions may be necessary.</li> </ol>	
Subtotal (maximum = 10)		
. Administrative Feasibilii	<u>ty</u>	
<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	-
	ii) Required coordination is normal.	<u> </u>
	iii) Extensive coordination is required.	
Subtotal (maximum = 2)		
Availability of Services and Materials		
<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration yes generally commercially available No for the site-specific application?</li> </ul>	$\leq$
	ii) Will more than one vendor be available Yes to provide a competitive bid?	<u> </u>

A1 - Waller on Est Cit I - No Action

13/25 + 12/16 = 24/40 26/40

Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Analysis Factor		Basis for Evaluation During Preliminary Screening				
•	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	<u>✓</u> 0 4		
			° Can the short-term risk be easily controlled?	Yes _	_ 1 0		
		Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes	0_2		
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	C4		
3			O Are the available mitigative measures reliable to minimize potential impacts?	Yes	<u> </u>		
,		Subtotal (maximum = 4)					
•	3.	Time to implement the remedy.	What is the required time to implement < the remedy? The wife invested ranges and parties	2yr. <u>/</u> 2yr. <u>4</u>	/ <del>/**</del>		
			<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr/ 2yr/	<del>/</del>		
		Subtotal (maximum = 2)					
•	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	<u> </u>		

Subtotal (maximum = 5)

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## IMPLEMENTABILITY (Maximum Score = 15)

19/18

Scc

Analysis Factor

## Basis for Evaluation During Preliminary Screening

1. Technical Feasibility i) Not difficult to construct. a. Ability to construct technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified <u>√</u> <u>√</u> process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical problems. ii) Somewhat likely d. Need of undertaking i) No future remedial actions may be additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. a. Coordination with other agencies. ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of Yes prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid? No

7.03

- A2 - Shellow blu To 1 1th - Containment

17/25 + 13/15

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

An	alysis Factor	Basis for Evaluation During Preliminary Screening		Sco	
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	C 4
		° Can the short-term risk be easily controlled?	Yes No	<u>√</u>	1
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	$\neq$	(
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u> </u>	
		Are the available mitigative measures reliable to minimize potential impacts?	Yes No	<u></u>	
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	What is the required time to implement the remedy?	< 2yr. > 2yr.	<u></u>	
			<pre>≤ 2yr. &gt; 2yr.</pre>		

Subtotal (maximum = 2)

4. Permanence of the remedial alternative.

Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

Yes 😾

Subtotal (maximum = 5)

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1	. Technical Feasibility		
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		iii) Very difficult to construct and/or significant uncertainties in construction.	
	b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	•,le)
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	
8	c. Schedule of delays due to technical	i) Unlikely	
	problems.	ii) Somewhat likely	
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ol> <li>No future remedial actions may be anticipated.</li> </ol>	
	decron, it necessary.	<ul><li>Some future remedial actions may be necessary.</li></ul>	
	Subtotal (maximum = 10)		
2.	Administrative Feasibilit	<u>=y</u>	
	<ul> <li>a. Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	<u> </u>
		ii) Required coordination is normal.	
		iii) Extensive coordination is required.	
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		
(	<ul> <li>Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration Ye generally commercially available No for the site-specific application?	
		ii) Will more than one vendor be available Ye to provide a competitive bid?	
			9 70

43 - Shailon : a Pert 112 Dua - Ext - Santary

Table 4-1 16/25 + 12/15

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Scc

		<u>- `</u>	
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes / No
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes No <u></u>
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes
		Are the available mitigative measures reliable to minimize potential impacts?	Yes
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr.
		Required duration of the mitigative effort to control short-term risk.	2yr. √ 2yr. —
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes
	Subtotal (maximum = 5)		

3

## IMPLEMENTABILITY (Maximum Score = 15)

2/5

S

Analysis Factor

Basis for Evaluation During Preliminary Screening

	1	. <u>Te</u>	chnical Feasibility				
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		<u> </u>
				ii)	Somewhat difficult to construct. No uncertainties in construction.		
				iii)	Very difficult to construct and/or significant uncertainties in construction	١.	
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals		<del></del>
				ii)	Somewhat reliable in meeting the specifie process efficiencies or performance goals	d	
F		¢.	c. Schedule of delays due to technical	i)	Unlikely		
			problems.	ii)	Somewhat likely		
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
			action, it necessary.	ii)	Some future remedial actions may be necessary.		<u>\lambda</u>
		Sul	btotal (maximum = 10)				
	2.	Adr	ministrative Feasibilit	<u>:y</u>			
		<b>a</b> .	a. Coordination with other agencies.	1)	Minimal coordination is required.		
					Required coordination is normal.		$\sqrt{}$
				111)	Extensive coordination is required.		
		Sut	ototal (maximum = 2)				
	3.		ilability of Services Materials				
(		a.	Availability of prospective technologies.	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	<u> </u>
				ii)	Will more than one vendor be available to provide a competitive bid?	Yes No	<u>\</u>
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A4, Ext., lateral - Pots 14/1 Ext., lateral - Pots

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

Sco

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	
		° Can the short-term risk be easily controlled?	Yes No	<u> </u>	•
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes No	$\neq$	į
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)  In Stripping- but freedom with a surfaced on the available mitigative measures	Yes No	$\neq$	
		• Are the available mitigative measures reliable to minimize potential impacts?	Yes		
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	O What is the required time to implement the remedy?	<pre>     2yr.     2yr. </pre>	<u>√</u>	
		Required duration of the mitigative effort to control short-term risk.	2yr. > 2yr.		
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	$\neq$	
	Subtotal (maximum = 5)	.Jes, go to rector o.,			

J

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	1.	. <u>Te</u>	chnical Feasibility				
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		<u> </u>
				ii)	Somewhat difficult to construct. No uncertainties in construction.		
				iii)	Very difficult to construct and/or significant uncertainties in construction.		
•		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		$\sqrt{}$
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
F		c.	c. Schedule of delays	i)	Unlikely		
<u>C</u>			<pre>due to technical problems.</pre>	ii)	Somewhat likely		$\overline{\checkmark}$
		đ.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		<u>√</u> <u>√</u>
			decion, it necessary.	ii)	Some future remedial actions may be necessary.		
		Sul	btotal (maximum = 10)				
	2.	Adr	ninistrative Feasibility	Ĺ			
		4.	Coordination with other agencies.	1)	Minimal coordination is required.		***********
				11)	Required coordination is normal.		
				111)	Extensive coordination is required.		$\overline{\checkmark}$
		Sub	ototal (maximum = 2)				
	3.		ilability of Services Materials				
(		<b>a.</b>	Availability of prospective technologies.	i)		es	$\frac{1}{}$
				11)	An managada a companya a sa	<b>e</b> s 0	<u>/</u>
							215

A5) Shall , St leat Pt ? Area

(x1 - Tried - Guidace vater Days of

tolowhols)

Table 4-1

425 + 7/15

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Subtotal (maximum = 5)

Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes V
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 🛨
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes
		O Are the available mitigative measures reliable to minimize potential impacts?	Yes
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr. <u>√</u> 2yr. <u>—</u>
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes
	Cubectal (maximum = 5)	yes, go to Factor 6.)	

Sc

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

1.	Technical Feasibility		,
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		iii) Very difficult to construct and/or significant uncertainties in construction.	
	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	**************
<del>-</del>	c. Schedule of delays	i) Unlikely	
_'	<pre>due to technical problems.</pre>	ii) Somewhat likely	<u> </u>
	d. Need of undertaking additional remedial	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	$\sqrt{}$
	action, if necessary.	<ol> <li>Some future remedial actions may be necessary.</li> </ol>	
	Subtotal (maximum = 10)		
2.	Administrative Feasibilit	<u>Y</u>	
	a. Coordination with	i) Minimal coordination is required.	
	other agencies.	ii) Required coordination is normal.	$\sqrt{}$
		iii) Extensive coordination is required.	
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		
	<ul> <li>Availability of prospective technologies.</li> </ul>		les $\sqrt{}$
		•	les $\frac{}{2}$

Abi In Ste propensation

8/25 + 17/15

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

An	alysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No		(
		° Can the short-term risk be easily controlled?	Yes No	<u></u>	
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes No	<u></u>	
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u> </u>	
		O Are the available mitigative measures reliable to minimize potential impacts?	Yes No	<b></b>	
	Subtotal (maximum = 4)				
3.	Time to implement the remedy.	What is the required time to implement the remedy?	< 2yr. > 2yr.	<u> </u>	
		Required duration of the mitigative effort to control short-term risk.	< 2yr. > 2yr.	$\preceq$	
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Ye: No	· <u> </u>	

yes, go to Factor 6.)

Subtotal (maximum = 5)

6

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	1.	Technical Feasibility			
		<ul> <li>Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.	
			ii)	Somewhat difficult to construct. No uncertainties in construction.	
			iii)	Very difficult to construct and/or significant uncertainties in construction.	
		b. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	
F		c. Schedule of delays	i)	Unlikely	
<u>C</u> ,		due to technical problems.	ii)	Somewhat likely	
		d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.	
		action, if necessary.	ii)	Some future remedial actions may be necessary.	$\frac{}{}$
		Subtotal (maximum = 10)			
	2.	Administrative Feasibilit	Y		
		a. Coordination with	1)	Minimal coordination is required.	
		other agencies.	11)	Required coordination is normal.	
			111)	Extensive coordination is required.	
		Subtotal (maximum = 2)			<del> </del>
	3.	Availability of Services and Materials			
(		a. Availability of prospective technologies.	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	<u> </u>
			11)	Will more than one vendor be available Yes to provide a competitive bid?	723
					LLS

(31 - Challen - W on Ult Acces 1 No Action

Table 4-1

125 , 13/15 NESS 26)

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

(

Basis for Evaluation During Preliminary Screening

	tection of community ing remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No <u></u>
		Can the short-term risk be easily controlled?	Yes
Sub	total (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes
2. Env	ironmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes
		Are the available mitigative measures reliable to minimize potential impacts?	Yes $\sqrt{}$
Sub	total (maximum = 4)		
	ne to implement the nedy.	O What is the required time to implement the remedy?	2yr. <u>//</u> 2yr. <u>4</u>
		Required duration of the mitigative effort to control short-term risk.	2yr
Sub	ototal (maximum = 2)		
	manence of the remedial cernative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes
Sub	ototal (maximum = 5)	.g., go to 12000, 0./	

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

	1.	. <u>Technical Feasibility</u>			
		<ul> <li>Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.	
			ii)	Somewhat difficult to construct. No uncertainties in construction.	
			iii)	Very difficult to construct and/or significant uncertainties in construction.	
		<ul><li>b. Reliability of technology.</li></ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.	
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	_
F		c. Schedule of delays due to technical	i)	Unlikely	
		problems.	ii)	Somewhat likely	<del></del>
		d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.	_
		action, if necessary.	ii)	Some future remedial actions may be necessary.	$\sqrt{}$
		Subtotal (maximum = 10)			
	2.	Administrative Feasibilit	<u>ty</u>		
		<ul> <li>a. Coordination with other agencies.</li> </ul>		Minimal coordination is required.	<u> </u>
			11)	Required coordination is normal.	
			111)	Extensive coordination is required.	
		Subtotal (maximum = 2)			
	3.	Availability of Services and Materials			
(		<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	
			11)	Will more than one vendor be available to provide a competitive bid?	

132) Haller, 11 1/7 heal Contain out

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor		alysis Factor	Basis for Evaluation During Preliminary Screening		
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)		•
			° Can the short-term risk be easily controlled?	Yes	1 0
			Open the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
		Subtotal (maximum = 4)			
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	•
3			O Are the available mitigative measures reliable to minimize potential impacts?	Yes /	- 3 - 0
		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	O What is the required time to implement the remedy?	< 2yr. <u>√</u> > 2yr. <u>—</u>	1 0
			Required duration of the mitigative effort to control short-term risk.	<pre>&lt; 2yr.</pre>	- <sup>1</sup> 0
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes	<u> </u>
		Cubectal (marinum = 5)	yes, go to Factor 6.)		

Subtotal (maximum = 5)

(

Scc

Analysis Factor

#### Basis for Evaluation During Preliminary Screening

_			
1.	Technical Feasibility		
	<ul> <li>Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
		iii) Very difficult to construct and/or significant uncertainties in construction.	
	<ul> <li>Reliability of technology.</li> </ul>	<ol> <li>Very reliable in meeting the specified process efficiencies or performance goals.</li> </ol>	
		<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	
	c. Schedule of delays	i) Unlikely	
	due to technical problems.	ii) Somewhat likely	<u> </u>
	d. Need of undertaking additional remedial action, if necessary.	<ol> <li>No future remedial actions may be anticipated.</li> </ol>	
	accion, it necessary.	<ol> <li>Some future remedial actions may be necessary.</li> </ol>	$\checkmark$
	Subtotal (maximum = 10)		
2.	Administrative Feasibilit	<u>=y</u>	
	a. Coordination with	i) Minimal coordination is required.	
	other <b>agencie</b> s.	ii) Required coordination is normal.	
		111) Extensive coordination is required.	
	Subtotal (maximum = 2)		
3.	Availability of Services and Materials		
	<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>	<del></del>
		ii) Will more than one vendor be available Yes to provide a competitive bid? No	
			721

B3. Sharlow GW UST Area No. 1 Ex-cartery, Disposal is Tambay Even

#### Table 4-1

## SHORT-TERM/LONG-TERM EFFECTIVENESS 12/15 (Maximum Score = 25)

Anal	ysis	Factor
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Subtotal (maximum = 5)

(

Basis for Evaluation During Preliminary Screening

_		- Joer centring			
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	<u> </u>	
		Can the short-term risk be easily controlled?	Yes No	<u></u>	
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	<u></u>	
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	<u>/</u>	
	Subtotal (maximum = 4)	Are the available mitigative measures reliable to minimize potential impacts?	Yes No	<u></u>	
3.	Time to implement the remedy.	Owhat is the required time to implement of the remedy?	2yr. 2yr.		
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	2yr. 2yr.	<u> </u>	
	Subtotal (maximum = 2)				
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	<u></u>	
	Subtotal (maximum = 5)	yes, go to Factor 6.)			

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## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

#### Basis for Evaluation During Preliminary Screening

		ii) Will more than one vendor be available Yes to provide a competitive bid? No	235
(	<ul> <li>Availability of prospective technologies.</li> </ul>	i) Are technologies under consideration Yes generally commercially available No for the site-specific application?	<u>√</u>
3.	Availability of Services and Materials		
	Subtotal (maximum = 2)		
	• • • • •	iii) Extensive coordination is required.	
		ii) Required coordination is normal.	$\checkmark$
	<ul> <li>Coordination with other agencies.</li> </ul>	i) Minimal coordination is required.	
2	. Administrative Feasibilit	Y.	
	Subtotal (maximum = 10)		
		<ol> <li>Some future remedial actions may be necessary.</li> </ol>	$\overline{}$
	<ul> <li>d. Need of undertaking additional remedial action, if necessary.</li> </ul>	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>	
	problems.	ii) Somewhat likely	
5	c. Schedule of delays due to technical	i) Unlikely	
<b>~</b> .		<ul> <li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
·	<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>	
		iii) Very difficult to construct and/or significant uncertainties in construction.	
		<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>	
	<ul> <li>a. Ability to construct technology.</li> </ul>	<ul> <li>i) Not difficult to construct.</li> <li>No uncertainties in construction.</li> </ul>	<u> </u>
	1. Technical Feasibility		

Table 4-1

15/2 >11/15

## SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

Basis for Evaluation During Preliminary Screening

_				
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	
		° Can the short-term risk be easily controlled?	Yes No	<u> </u>
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	<u></u>
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	J
		Are the available mitigative measures reliable to minimize potential impacts?	Yes No	
	Subtotal (maximum = 4)			
3.	Time to implement the remedy.	O What is the required time to implement of the remedy?	2yr. 2yr.	<u> </u>
		Required duration of the mitigative effort to control short-term risk.	2yr. 2yr.	<u> </u>
	Subtotal (maximum = 2)			
	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes No	<del></del>
	Subtotal (maximum = 5)	yes, go to Factor 6.)		

Shallow Low 1987 Area 1

Ext - Treat - Designal in Emple Water

1015, Metals
Table 4-1 SHORT-TERM/LONG-TERM EFFECTIVENESS 14/25 + 10/15

(Maximum Score = 25)

Analysis Factor

Subtotal (maximum = 5)

Basis for Evaluation During Preliminary Screening

		- Marian - Caranta - Caran	
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes / No
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes No <u></u>
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No <u></u>
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr
		Required duration of the mitigative effort to control short-term risk.	2yr
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes

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# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

#### Basis for Evaluation During Preliminary Screening

	1.	Te	chnical Feasibility				
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		
				ii)	Somewhat difficult to construct. No uncertainties in construction.		_/
				iii)	Very difficult to construct and/or significant uncertainties in construction.		
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
F		c.	Schedule of delays	i)	Unlikely		
<u> </u>			<pre>due to technical problems.</pre>	ii)	Somewhat likely		$\sqrt{}$
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
			action, it necessary.	ii)	Some future remedial actions may be necessary.		<u> </u>
		Su	btotal (maximum = 10)				
	2.	Adı	ministrative Feasibilit	Y			
		a.	. Coordination with other agencies.	1)	Minimal coordination is required.		
				ii)	Required coordination is normal.		<u>√</u>
				111)	Extensive coordination is required.		
		Sul	ototal (maximum = 2)				
	3.		ailability of Services  Materials				
(		a.	Availability of prospective technologies.	i)	Are technologies under consideration Y generally commercially available N for the site-specific application?	'es lo	<del>-</del>
				11)	Will more than one vendor be available Y to provide a competitive bid?	_	<u>J</u>
						24	13

(36) Shallow W. Area I In Side meadment

Table 4-1

13/25 x 10/15

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor

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Basis for Evaluation During Preliminary Screening

Sc

1.	Protection of community during remedial actions.		Yes / No
			Yes
	Subtotal (maximum = 4)		Yes No <u>J</u>
2.	Environmental Impacts	A - A +	Yes No <u></u>
			Yes
	Subtotal (maximum = 4)		,
3.	Time to implement the remedy.		2yr
			2yr 2yr
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes
	Subtotal (maximum = 5)	yes, go to ractor o.)	

247

S

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

1. Technical Feasibility a. Ability to construct i) Not difficult to construct. technology. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. i) Very reliable in meeting the specified b. Reliability of technology. process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. c. Schedule of delays i) Unlikely due to technical problems. ii) Somewhat likely d. Need of undertaking i) No future remedial actions may be additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. a. Coordination with other agencies. ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials a. Availability of i) Are technologies under consideration Yes prospective generally commercially available technologies. for the site-specific application? ii) Will more than one vendor be available Yes to provide a competitive bid? No

Jeep GW in Test Pd 7 Area - No Action (VoCa)

SHORT-TERM/LONG-TERM EFFECTIVENESS

(Maximum Score = 25)

Ana	) ys	sis	Fa	ctor
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Basis for Evaluation During Preliminary Screening

Scc

		-	
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No <u></u>
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) Gw Sfandard.	Yes
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes <u></u>
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.		2yr. <u>/</u> 2yr. <u></u>
		Required duration of the mitigative effort to control short-term risk.	
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is	Yes <u> </u>
	Subtotal (maximum = 5)	yes, go to Factor 6.)	

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# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

### Basis for Evaluation During Preliminary Screening

St

	1	. <u>Te</u>	chnical Feasibility				
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		
				ii)	Somewhat difficult to construct. No uncertainties in construction.		
				iii)	Very difficult to construct and/or significant uncertainties in construction.		
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		<del></del>
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		_
F		с.	c. Schedule of delays due to technical	i)	Unlikely		$\sqrt{}$
			problems.	ii)	Somewhat likely		
		d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
			action, it necessary.	11)	Some future remedial actions may be necessary.		
		Sul	ototal (maximum = 10)				
	2.	Adn	ministrative Feasibilit	Y			/
		<b>a</b> .	Coordination with other agencies.		Minimal coordination is required.		
				11)	Required coordination is normal.		
				111)	Extensive coordination is required.		
		Sub	total (maximum = 2)				
	3.		ilability of Services Materials				
(			Availability of prospective technologies.	i)	·#####################################	es io	<u>√</u>
				ii)	Will more than one vendor be available Y to provide a competitive bid?		<u>\</u>
						2	<b>3</b> /

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS

(Maximum Score = 25)

Sanitary

12/15

Analysis Factor

Subtotal (maximum = 5)

Basis for Evaluation During Preliminary Screening

Sc.

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes V
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Opes the mitigative effort to control short-term risk impact the community life-style?	Yes
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) Implementing the According Collection Potter produce lyster wills -  Are the available mitigative measures	Yes
	_	reliable to minimize potential impacts?	No
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.		2yr
		Required duration of the mitigative effort to control short-term risk.	2yr. <u> </u>
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes

### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

### Basis for Evaluation During Preliminary Screening

S:

	1.	Technical Feasibility			
		<ul> <li>Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.	
			ii)	Somewhat difficult to construct. No uncertainties in construction.	$\frac{}{}$
			iii)	Very difficult to construct and/or significant uncertainties in construction.	
		b. Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	
F		c. Schedule of delays	i)	Unlikely	_
<u>C</u> ,		<pre>due to technical problems.</pre>	ii)	Somewhat likely	
		d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.	
		action, if necessary.	ii)	Some future remedial actions may be necessary.	
		Subtotal (maximum = 10)			
	2.	Administrative Feasibilit	Y		
		a. Coordination with	1)	Minimal coordination is required.	
		other agencies.	11)	Required coordination is normal.	$\sqrt{}$
			111)	Extensive coordination is required.	
		Subtotal (maximum = 2)			
	3.	Availability of Services and Materials			
(		a. Availability of prospective technologies.	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	s <u>√</u>
			ii)	Will more than one vendor be available Yes to provide a competitive bid? No	
					255

Deep GIV in 7.01 P.17 Aven - Ext - Protect - Sanitary
(Vo(s) 1/25 + 8/15

#### Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Sc

Analysis Factor

Basis for Evaluation During Preliminary Screening

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes \( \frac{1}{2} \)
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes /
	Subtotal (maximum = 4)		
3.	Time to implement the remedy.	What is the required time to implement the remedy?	2yr
		Required duration of the mitigative effort to control short-term risk.	2yr. <u>/</u> 2yr. <u></u>
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes
	Subtotal (maximum = 5)	Jes, go to rector o.)	

Şc

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

		·····				
1.	<u>Te</u>	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		
			ii)	Somewhat difficult to construct. No uncertainties in construction.		<del></del>
			iii)	Very difficult to construct and/or significant uncertainties in construction.		
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		_
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	ļ	
	с.	Schedule of delays due to technical	i)	Unlikely		
		problems.	ii)	Somewhat likely		1
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
		accion, in necessary.	ii)	Some future remedial actions may be necessary.		_,
	Su	btotal (maximum = 10)				
2.	Adı	ministrative Feasibility	Ĺ			
	<b>a</b> .	Coordination with	1)	Minimal coordination is required.		
		other agencies.	11)	Required coordination is normal.		
			111)	Extensive coordination is required.		
	Su	btotal (maximum = 2)				
3.		ailability of Services d Materials				
	<b>a</b> .	Availability of prospective technologies.	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	
			ii)	Will more than one vendor be available to provide a competitive bid?	Yes No	_/

259

D4/ Deep GW in Test Pil 3 Area - Ext - Treat or on Nocs).

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS

(Maximum Score = 25)

13/25 +8/15

Analysis Factor

Subtotal (maximum = 5)

(

Basis for Evaluation During Preliminary Screening

Sca

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes
		° Can the short-term risk be easily controlled?	Yes
	Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes
			j
2.	Environmental Impacts	Of Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes
		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes
	Subtotal (maximum = 4)		/
3.	Time to implement the remedy.	O What is the required time to implement the remedy?	< 2yr.
		Required duration of the mitigative effort to control short-term risk.	2yr.
	Subtotal (maximum = 2)		
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes

Sc

#### IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

1. Technical Feasibility

technology.

b. Reliability of

technology.

c. Schedule of delays

due to technical

d. Need of undertaking additional remedial

action, if necessary.

a. Ability to construct

Basis for Evaluation During Preliminary Screening i) Not difficult to construct. No uncertainties in construction. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. i) Very reliable in meeting the specified process efficiencies or performance goals. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. i) Unlikely ii) Somewhat likely i) No future remedial actions may be anticipated. ii) Some future remedial actions may be necessary. i) Minimal coordination is required. ii) Required coordination is normal. iii) Extensive coordination is required. Yes

problems.

### Subtotal (maximum = 10) 2. Administrative Feasibility

- a. Coordination with other agencies.

#### Subtotal (maximum = 2)

#### 3. Availability of Services and Materials

- a. Availability of prospective technologies.
- i) Are technologies under consideration generally commercially available for the site-specific application?
- ii) Will more than one vendor be available to provide a competitive bid?

No

*2*63

Deep GW in Test lit - Area - In Situ Treatment (VOC) (Bioremediation

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

2.)

Analysis Factor

Basis for Evaluation During Preliminary Screening

addressed? No

Sc:

auring remedial actions.	(If answer is no, go to Factor 2.
	Ocan the short-term risk be easily controlled?

Yes No

Ones the mitigative effort to control short-term risk impact the community life-style?

Are there significant short-term risks

Yes

Subtotal (maximum = 4)

1. Protection of community

2. Environmental Impacts

Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)

Yes

Are the available mitigative measures reliable to minimize potential impacts?

Subtotal (maximum = 4)

3. Time to implement the remedy.

What is the required time to implement the remedy?

Required duration of the mitigative effort to control short-term risk.

Subtotal (maximum = 2)

4. Permanence of the remedial alternative.

Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)

Yes \_\_\_\_

Subtotal (maximum = 5)

5

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

S

				ii)	Will more than one vendor be available Yes to provide a competitive bid?	<u>/</u> 267
(		<b>a</b> .	Availability of prospective technologies.	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	<u></u>
	3.		ilability of Services Materials			
		Sul	ototal (maximum = 2)		•	<u>-¥</u>
					Extensive coordination is required.	
			other agencies.		Required coordination is normal.	_
	2.		ninistrative Feasibilit  Coordination with	_	Minimal coordination is required.	
			ototal (maximum = 10)			
				ii)	Some future remedial actions may be necessary.	1
		a.	Need of undertaking additional remedial action, if necessary.		No future remedial actions may be anticipated.	·····
•		_	problems.		Somewhat likely	J
8		۲.	. Schedule of delays due to technical	i)	Unlikely	<del></del>
				ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	<u> </u>
		b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	
				iii)	Very difficult to construct and/or significant uncertainties in construction.	<u>\</u>
				ii)	Somewhat difficult to construct. No uncertainties in construction.	
		a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	
	4 -	16	chnical Feasibility			

- Deap SiV in B-19D Area - No Action (1001)

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

13/26 \$ 13/15

Analysis Factor

Basis for Evaluation During Preliminary Screening

Score

1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 4
		° Can the short-term risk be easily controlled?	Yes	1
	C. bashal (mayimum = A)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2
2.	Subtotal (maximum = 4)  Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
S)		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3
	Subtotal (maximum = 4)		/	
3.	Time to implement the remedy.	Owhat is the required time to implement the remedy?	≤ 2yr > 2yr	1
		Required duration of the mitigative effort to control short-term risk.	<pre></pre>	1
	Subtotal (maximum = 2)			
4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	5 0
	Subtotal (maximum = 5)	,		

## IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

## Basis for Evaluation During Preliminary Screening

Scor

	1.	Technical Feasibility			
		<ul> <li>a. Ability to construct technology.</li> </ul>	<ul><li>i) Not difficult to construct.</li><li>No uncertainties in construction.</li></ul>	1	3
			<ul><li>ii) Somewhat difficult to construct.</li><li>No uncertainties in construction.</li></ul>		2
			iii) Very difficult to construct and/or significant uncertainties in construction.		1
		<ul> <li>Reliability of technology.</li> </ul>	<ul> <li>i) Very reliable in meeting the specified process efficiencies or performance goals.</li> </ul>		3
			<ul><li>ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.</li></ul>	<u>\</u>	2
F		c. Schedule of delays due to technical	i) Unlikely	<u></u>	2
		problems.	ii) Somewhat likely		1
		d. Need of undertaking additional remedial	<ul> <li>i) No future remedial actions may be anticipated.</li> </ul>		2
		action, if necessary.	<ol> <li>Some future remedial actions may be necessary.</li> </ol>	1	1
		Subtotal (maximum = 10)			
	2.	Administrative Feasibilit	Y	,	
		a. Coordination with other agencies.	1) Minimal coordination is required.	$\sqrt{}$	2
		other agenties.	ii) Required coordination is normal.		1
			iii) Extensive coordination is required.		C
		Subtotal (maximum = 2)			
	3.	Availability of Services and Materials		-	
(		<ul> <li>Availability of prospective technologies.</li> </ul>	<ul> <li>i) Are technologies under consideration Yes generally commercially available No for the site-specific application?</li> </ul>		. (
			ii) Will more than one vendor be available Yes to provide a competitive bid? No	7	

Deep FW - C-19D Anna - Ext -> POTW NOCO

Table 4-1

1=1215

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	An	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 4
			° Can the short-term risk be easily controlled?	Yes	1 0
		6 Markel (market = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
		Subtotal (maximum = 4)		1	
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes V	•
3			O Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
		Subtotal (maximum = 4)		,	
	3.	Time to implement the remedy.	O What is the required time to implement the remedy?	2yr√ 2yr	1 0
			Required duration of the mitigative effort to control short-term risk.	2yr.	- <sup>1</sup> 0
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No <u> </u>	5 0
		Subtotal (maximum = 5)	Jes, go to ractor o.,		

## IMPLEMENTABILITY (Maximum Score = 15)

12/15

Analysis Factor

### Basis for Evaluation During Preliminary Screening

Scor

	1.	Technical Feasibility					
		<ul> <li>a. Ability to construct technology.</li> </ul>	i)	Not difficult to construct. No uncertainties in construction.			3
			ii)	Somewhat difficult to construct. No uncertainties in construction.			2
				Very difficult to construct and/or significant uncertainties in construction.		<u> </u>	1
		<ul><li>b. Reliability of technology.</li></ul>	i)	Very reliable in meeting the specified process efficiencies or performance goals.			3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
8		c. Schedule of delays due to technical	i)	Unlikely			2
		problems.	ii)	Somewhat likely			1
		d. Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.			2
		action, it necessary.	ii)	Some future remedial actions may be necessary.		_	2
		Subtotal (maximum = 10)					
	2.	Administrative Feasibilit	<u> Y</u>				
		a. Coordination with other agencies.	1)	Minimal coordination is required.		_	2
		other agencies.	ii)	Required coordination is normal.			2
			111)	Extensive coordination is required.			(
		Subtotal (maximum = 2)					
	3.	Availability of Services and Materials					
(		<ul> <li>Availability of prospective technologies.</li> </ul>	i)	Are technologies under consideration generally commercially available for the site-specific application?	Yes No	<u>/</u>	
			ii)	Will more than one vendor be available to provide a competitive bid?	Yes No	<u></u>	27

Cep 6W m 10-111) Arra Ext -> POTW (VOC:)

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

13/25 + 8/15

	An	alysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1.	Protection of community during remedial actions.	O Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes /	0 4
			° Can the short-term risk be easily controlled?	Yes	1 0
		Subtotal (maximum = 4)	Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
-	2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes V	
F			Of Are the available mitigative measures reliable to minimize potential impacts?	Yes /	3 0
C'		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.		2yr	
			<pre>Property of the mitigative effort to control short-term risk.</pre>	2yr	- <sup>1</sup> <sub>0</sub>
		Subtotal (maximum = 2)			
	4.	Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	5 0
		Subtotal (maximum = 5)	ges, go to rector o.,		

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Score

1.	Te	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.		2
			iii)	Very difficult to construct and/or significant uncertainties in construction.	$\sqrt{}$	]
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		7
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.	<u> </u>	7
	c.	Schedule of delays	i)	Unlikely		2
		<pre>due to technical problems.</pre>	ii)	Somewhat likely	$\sqrt{}$	1
	d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.		į
		action, if necessary.	ii)	Some future remedial actions may be necessary.		
	Su	btotal (maximum = 10)				
2.	Ad	ministrative Feasibility	Y			
	a.	Coordination with	1)	Minimal coordination is required.		2
		other agencies.	ii)	Required coordination is normal.		:
			111)	Extensive coordination is required.	$\sqrt{}$	(
	Su	btotal (maximum = 2)				
3.		ailability of Services d Materials				
	a.	Availability of prospective technologies.	i)	Are technologies under consideration Yes generally commercially available No for the site-specific application?	<del></del>	I
			ii)	Will more than one vendor be available to provide a competitive bid?	1	(
						7.7

Berjaham 2190 Area - Ext - Treat - Sw 196:1

#### Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

4/22	r	B	15
------	---	---	----

Ar	nalysis Factor	Basis for Evaluation During Preliminary Screening	Score
1.	Protection of community during remedial actions.	O Are there significant short-term risks Yes to the community that must be addressed? No (If answer is no, go to Factor 2.)	O 4
		Can the short-term risk be easily controlled? Yes No	
	Subtotal (maximum = 4)	O Does the mitigative effort to control short-term risk impact the community life-style? No	0
2.	Environmental Impacts	O Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	0 4
<b>a</b>		O Are the available mitigative measures reliable to minimize potential impacts? No	3 0
<u>ٺ</u>	Subtotal (maximum = 4)		
3.	. Time to implement the remedy.		$\frac{\sqrt{}}{}$
		Required duration of the mitigative seffort to control short-term risk. 2yr.	1 0
	Subtotal (maximum = 2)	•	
4.	Permanence of the remedial alternative.	Will the remedy be classified as yes permanent in accordance with Section No 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	
	Subtotal (maximum = 5)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

#### Table 4-2

# IMPLEMENTABILITY (Maximum Score = 15)

8/15

Analysis Factor

# Basis for Evaluation During Preliminary Screening

Score

1.	<u>Te</u>	chnical Feasibility				
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.		
			ii)	Somewhat difficult to construct. No uncertainties in construction.		
			iii)	Very difficult to construct and/or significant uncertainties in construction.		
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.		
	c.	Schedule of delays	i)	Unlikely		
		due to technical problems.	ii)	Somewhat likely		
	d.	Need of undertaking additional remedial action, if necessary.	i)	No future remedial actions may be anticipated.		
		action, it necessary.	ii)	Some future remedial actions may be necessary.		
	Su	btotal (maximum = 10)				
2.	Adı	ministrative Feasibilit	<u>.y</u>			
	<b>a</b> .	Coordination with	1)	Minimal coordination is required.		
		other agencies.	11)	Required coordination is normal.		
			111)	Extensive coordination is required.	$\overline{J}$	
	Sui	ototal (maximum = 2)				
3.		ailability of Services d Materials				
	a.	Availability of prospective technologies.	i)		res	
			ii)	4 1	fes <u>√</u>	

Region - 100 Arra -

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Analysis Factor Basis for Evaluation During Score Preliminary Screening Are there significant short-term risks 1. Protection of community during remedial actions. to the community that must be addressed? No (If answer is no, go to Factor 2.) ° Can the short-term risk be easily Yes controlled? O Does the mitigative effort to control short-term risk impact the community life-style? Subtotal (maximum = 4) Are there significant short-term risks 2. Environmental Impacts to the environment that must be addressed? (If answer is no, go to Factor 3.) Are the available mitigative measures reliable to minimize potential impacts? Subtotal (maximum = 4) 3. Time to implement the What is the required time to implement remedy. the remedy? Required duration of the mitigative ≤ 2yr.
> 2yr. 
√ effort to control short-term risk. Subtotal (maximum = 2) 4. Permanence of the remedial Will the remedy be classified as Yes alternative. permanent in accordance with Section

2.1(a), (b), or (c). (If answer is

yes, go to Factor 6.)

Subtotal (maximum = 5)

5

No

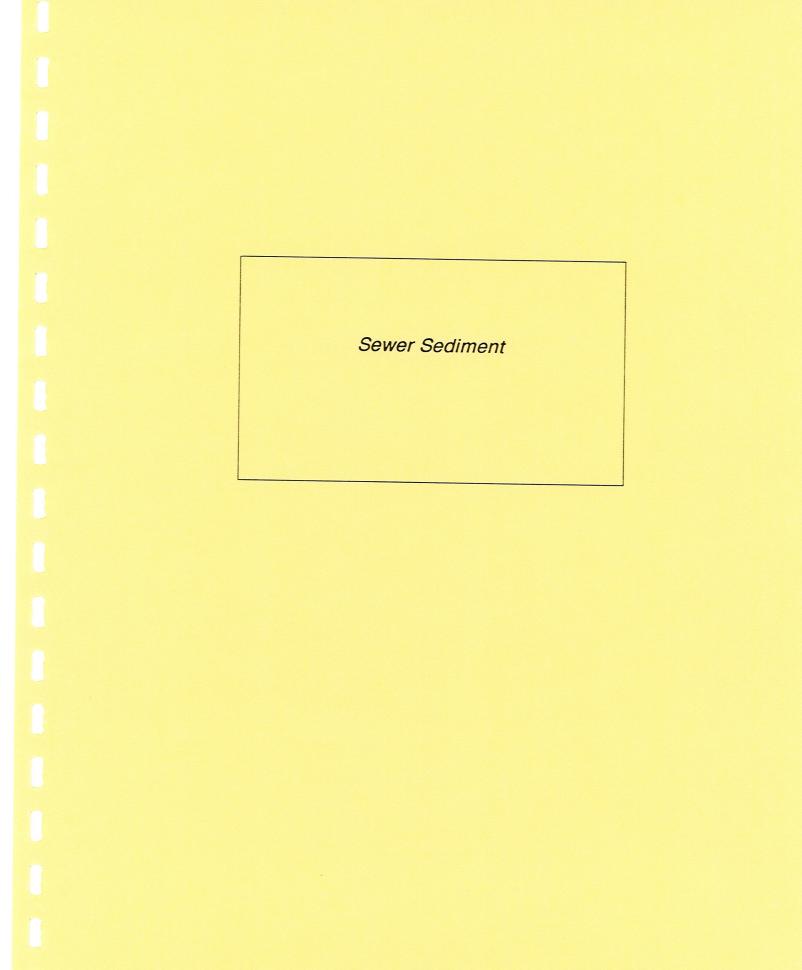
Table 4-2

### IMPLEMENTABILITY (Maximum Score = 15)

8/15

28

Analysis Factor Basis for Evaluation During Score Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct 3 technology. No uncertainties in construction. ii) Somewhat difficult to construct. 2 No uncertainties in construction. iii) Very difficult to construct and/or significant uncertainties in construction. i) Very reliable in meeting the specified b. Reliability of 3 process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified 2 process efficiencies or performance goals. c. Schedule of delays i) Unlikely 2 due to technical problems. ii) Somewhat likely 1 d. Need of undertaking i) No future remedial actions may be 2 additional remedial anticipated. action, if necessary. ii) Some future remedial actions may be 1 necessary. Subtotal (maximum = 10) 2. Administrative Feasibility a. Coordination with i) Minimal coordination is required. 2 other agencies. ii) Required coordination is normal. 1 iii) Extensive coordination is required. 0 Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of Yes prospective generally commercially available No for the site-specific application? technologies. ii) Will more than one vendor be available Yes to provide a competitive bid? С No



No Artion

Table 4-1

# SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Ana	alysis Factor	Basis for Evaluation During Preliminary Screening	2	core
	1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	.0 <sup></sup> .
			° Can the short-term risk be easily controlled?	Yes	1
			Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
		Subtotal (maximum = 4)			
-	2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0
a constant			Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
٠,		Subtotal (maximum = 4)			
	3.	Time to implement the remedy.	Owner with the required time to implement the remedy?		1
			Required duration of the mitigative effort to control short-term risk.	<pre>&lt; 2yr</pre> > 2yr	0
		Subtotal (maximum = 2)			
	4	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	5 0
		Subtotal (maximum = 5)	, <b>w</b> = = <b>v</b> = = = = = = = = = = = = = = = = = = =		

Table 4-2

# IMPLEMENTABILITY (Maximum Score = 15)

Analysis Factor

Basis for Evaluation During Preliminary Screening

Score

				Preliminary Screening			_
1.	Tec	chnical Feasibility					<del></del>
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	•		3
			ii)	Somewhat difficult to construct. No uncertainties in construction.	,	<del></del>	2
			iii)	Very difficult to construct and/or significant uncertainties in construction.		<del>,</del>	1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.		<del></del>	3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
	c.	Schedule of delays	i)	Unlikely			2
		due to technical problems.	ii)	Somewhat likely			1
	d.	Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2
		action, if necessary.	ii)	Some future remedial actions may be necessary.		<u>/</u>	1
	Su	btotal (maximum = 10)					
2.	. <u>Ad</u>	ministrative Feasibilit	Y				
	a.	Coordination with	1)	Minimal coordination is required.			2
		other agencies.	ii	Required coordination is normal.			1
			iii	Extensive coordination is required.			0
	St	ubtotal (maximum = 2)					
3		vailability of Services nd Materials				,	
	a	Availability of prospective technologies.	i	) Are technologies under consideration generally commercially available for the site-specific application?	Yes No		) (
			ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		1

Table 4-1 # 17113

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

Aı	nalysis Factor	Basis for Evaluation During Preliminary Screening	:	Score
1	. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 - 4
		Can the short-term risk be easily controlled?	Yes	1 0
		Open the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
	Subtotal (maximum = 4)			
- 2	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 4
<del>-</del>		Are the available mitigative measures reliable to minimize potential impacts?	Yes No	3 0
_ ,	Subtotal (maximum = 4)			
3	3. Time to implement the remedy.	Owner with the required time to implement the remedy?		1 0
	·	Required duration of the mitigative effort to control short-term risk.	< 2yr	0
	Subtotal (maximum = 2)			
	<ol> <li>Permanence of the remedial alternative.</li> </ol>	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0
	Subtotal (maximum = 5)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Table 4-2

### IMPLEMENTABILITY (Maximum Score = 15)

Basis for Evaluation During Score Analysis Factor Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct No uncertainties in construction. technology. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. b. Reliability of i) Very reliable in meeting the specified process efficiencies or performance goals. technology. ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. i) Unlikely c. Schedule of delays due to technical ii) Somewhat likely problems. i) No future remedial actions may be d. Need of undertaking anticipated. additional remedial action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility i) Minimal coordination is required. a. Coordination with other agencies. ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of generally commercially available prospective for the site-specific application? technologies. ii) Will more than one vendor be available to provide a competitive bid?

Execute / Off Site Disposed

Table 4-1

### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

	Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
	1. Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	0 - 4
		° Can the short-term risk be easily controlled?	Yes	1
		Ones the mitigative effort to control short-term risk impact the community life-style?	Yes	0 2
	Subtotal (maximum = 4)			
-	2. Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	0 <b>4</b>
6		Of Are the available mitigative measures reliable to minimize potential impacts?	Yes	3 0
, ,	Subtotal (maximum = 4)			
	<ol><li>Time to implement the remedy.</li></ol>	Owner with the required time to implement the remedy?	<pre>&lt; 2yr</pre> > 2yr	-
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	<pre>&lt; 2yr</pre>	1 0
	Subtotal (maximum = 2)			
	4. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0
	Subtate) (maximum = 5)	.J. 60 , 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Subtotal (maximum = 5)

(

Table 4-2

# IMPLEMENTABILITY (Maximum Score = 15)

An	alys	is Factor		Basis for Evaluation During Preliminary Screening	<del></del>	Sc	ore
1.	Tec	hnical Feasibility				-	
	a.	Ability to construct technology.	i)	Not difficult to construct. No uncertainties in construction.	•	V	3
			ii)	Somewhat difficult to construct. No uncertainties in construction.	•	<del></del> -	2
			iii)	Very difficult to construct and/or significant uncertainties in construction.	•		1
	b.	Reliability of technology.	i)	Very reliable in meeting the specified process efficiencies or performance goals.	•		3
			ii)	Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
	c.	<ul> <li>c. Schedule of delays due to technical problems.</li> </ul>	i)	Unlikely		<del></del>	2
			ii)	Somewhat likely		$\sqrt{}$	1
	d. Need of undertaking additional remedial	i)	No future remedial actions may be anticipated.			2	
		action, if necessary.	ii)	Some future remedial actions may be necessary.			1
	Su	btotal (maximum = 10)					
2	. <u>Ad</u>	ministrative Feasibilit	y				
	a.	a. Coordination with other agencies.	i	Minimal coordination is required.			2
			ii	Required coordination is normal.			3
			iii	) Extensive coordination is required.		$\sqrt{}$	(
	Sı	ubtotal (maximum = 2)					
3		vailability of Services nd Materials				,	
	à	<ul> <li>Availability of prospective technologies.</li> </ul>	i	) Are technologies under consideration generally commercially available for the site-specific application?	Yes No		
			ii	) Will more than one vendor be available to provide a competitive bid?	Yes No		_

551 Excavate 1 On Site Disposal 

Table 4-1

#### SHORT-TERM/LONG-TERM EFFECTIVENESS (Maximum Score = 25)

An	alysis Factor	Basis for Evaluation During Preliminary Screening	Score
1.	Protection of community during remedial actions.	Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes 0 No 4
		° Can the short-term risk be easily controlled?	Yes 1 No 0
		Ones the mitigative effort to control short-term risk impact the community life-style?	Yes 0 No 2
	Subtotal (maximum = 4)		
2.	Environmental Impacts	Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes 0 No 4
<del>}</del>		Are the available mitigative measures reliable to minimize potential impacts?	Yes 3 No 0
	Subtotal (maximum = 4)		
3	. Time to implement the remedy.	Owner with the required time to implement the remedy?	
		<ul> <li>Required duration of the mitigative effort to control short-term risk.</li> </ul>	
	Subtotal (maximum = 2)		
4	. Permanence of the remedial alternative.	Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes 5 No 0
	Subtotal (maximum = 5)		

Table 4-2

### IMPLEMENTABILITY (Maximum Score = 15)

Basis for Evaluation During Score Analysis Factor Preliminary Screening 1. Technical Feasibility i) Not difficult to construct. a. Ability to construct No uncertainties in construction. technology. ii) Somewhat difficult to construct. No uncertainties in construction. iii) Very difficult to construct and/or 1 significant uncertainties in construction. 3 i) Very reliable in meeting the specified b. Reliability of process efficiencies or performance goals. technology. 2 ii) Somewhat reliable in meeting the specified process efficiencies or performance goals. 2 i) Unlikely c. Schedule of delays due to technical 1 ii) Somewhat likely problems. i) No future remedial actions may be 2 d. Need of undertaking anticipated. additional remedial action, if necessary. ii) Some future remedial actions may be necessary. Subtotal (maximum = 10) 2. Administrative Feasibility 2 i) Minimal coordination is required. a. Coordination with other agencies. ii) Required coordination is normal. iii) Extensive coordination is required. Subtotal (maximum = 2) 3. Availability of Services and Materials i) Are technologies under consideration a. Availability of generally commercially available prospective for the site-specific application? technologies. ii) Will more than one vendor be available to provide a competitive bid?