New Bedford Harbor Superfund Site, New Bedford, Mass . This estimate has been revised according to the 90% design by foster wheeler Dated July 2001. Quantities developed by Bill McIntyre. Wage data has been updated using the latest General wage decisions dated October 6/27/2006 for 'Dredging' and 'Heavy & Marine' respectively. The estimate includes escalation of 5%, contingency of 5% and assumes a productivity of 85%. Prime contractor markup is included for FOOH, HOOH, Bond and Profit at rates of 10%, 5%, 2.75%, and 8.7% respectively.

Estimated by	CENED-EP-DE
Designed by	Foster-Wheeler Corp
Prepared by	Christopher Lindsay, CCC
Preparation Date	7/20/2006
Effective Date of Pricing	7/20/2006
Estimated Construction Time	249 Days

New Bedford Harbor, MA

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Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
Project Cost Summary Report			**20,482,393**	**1,523,628**	**22,006,020**
CONFINED DISPOSAL AREA 'C', NEW BEDFORD, MA	**1**	**LS**	**20,482,393**	**1,523,628**	**22,006,020**
MOBILIZE AND PREPARATORY WORK	**1**	**LS**	**83,381**	**6,796**	**90,177**
MOB CONSTRUCTION EQUIPMENT & FAC	**1**	**LS**	**10,230**	**834**	**11,064**
			639.37		*691.48*
TRANSPORT VEHICLES OWNERSHP/OPER	**16**	**HR**	**10,230**	**834**	**11,064**
(Note: Considered a basic truck crew with representative equipment for 2 days tomobilize all equipment to the site.)					
			542.05	*8.15*	*586.23*
TRANSPORT VEHICLES OWNERSHP/OPER	16	HR	8,673	707	9,380
			97.31	*8.15*	*105.25*
HYD EXCAV, CRWLR, 57,200 LBS, 1.50 CY BKT	16	HR	1,557	127	1,684
SETUP/CONSTRUCT TEMP FACILITY	**1**	**LS**	**73,151**	**5,962**	**79,113**
			1,306.27		*1,412.73*
SETUP/CONSTRUCT TEMP FACILITY	**56**	**HR**	**73,151**	**5,962**	**79,113**
(Note: Considered a basic crew a week and a half (7 days) to set up site trailersand prepare site for CDF construction. Also added office trailer, storagetrailer, utilities, construction signs, security fencing, and toilet for thelife of the project as detail items below this title.)					
			591.82	*8.15*	*640.05*
SETUP/CONSTRUCT TEMP FACILITY	56	HR	33,142	2,701	35,843
			212.86	*8.15*	*230.21*
Office trailer, rent per month, furnished, no hookups, 32' x 8'	11	MO	2,405	196	2,601
			442.92	*8.15*	*479.02*
Office trailer, rent per month, furnished, no hookups, 50' x 12'	11	MO	5,005	408	5,413
			132.23	*8.15*	*143.01*
Office, storage boxes, 40' x 8', rent per month	11	MO	1,494	122	1,616
			129.01	*8.15*	*139.52*
Toilet Portable Chemical	11	MO	1,458	119	1,577
			8.60	*8.15*	*9.30*
Temporary Fencing, chain link, 6' high, 11 ga	800	LF	6,878	561	7,439
			18.04	*8.15*	*19.51*
Sign, hi-intensity reflectorized, no posts, buy	50	SF	902	73	975
			1,935.11	*8.15*	*2,092.82*
Utilities Water, Electric, & phone	11	MO	21,867	1,782	23,649
(Note: From previous estimate 1993:$850/month)					
SITE WORK	**1**	**LS**	**57,729**	**4,705**	**62,434**
			44.41		*48.03*
FENCING	**1,300**	**LF**	**57,729**	**4,705**	**62,434**
			44.41		*48.03*
FENCING	**1,300**	**LF**	**57,729**	**4,705**	**62,434**
(Note: A 10 foot high chain link fence would be installed landside around thefacility. Assumed two double gates included.)					
			44.41		*48.03*

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
10' High Chain Link Fence	**1,300**	**LF**	**57,729**	**4,705**	**62,434**
			41.21	*8.15*	*44.56*
10' High Chain Link Fence (Note: Added $1.00 for each post tomaterial cost to adjust 8'H to10'H fence)	1,300	LF	53,568	4,366	57,933
			2,080.71	*8.15*	*2,250.28*
Gates, swing, chain link, without barbed wire, double, galvanized, 8' high, 24 wide, excludes excavation (Note: barb wire)	2	EA	4,161	339	4,501
SOLIDS COLLECT & CONTAINMENT	**1**	**LS**	**1,478,878**	**120,529**	**1,599,406**
			189,599.69		*205,052.06*
CAPPING CONTAM AREAS/WASTE PILE (Note: Recommended Alternative Cap)	**8**	**ACR**	**1,478,878**	**120,529**	**1,599,406**
			8.31		*8.98*
TOPSOIL COVER LAYER 6" (Note: Includes grass cover)	**37,752**	**SY**	**313,563**	**25,555**	**339,118**
			46.63		*50.44*
TOPSOIL (Note: 6")	**6,292**	**CY**	**293,427**	**23,914**	**317,341**
			46.63	*8.15*	*50.44*
Furn & Pl Imported Topsoil (Note: Used material price from WillSand & Gravel 11/3/95 for$15/CY delivered.)	6,292	CY	293,427	23,914	317,341
			0.43		*0.46*
SEEDING (Note: Assume overseed 25%)	**47,190**	**SY**	**20,136**	**1,641**	**21,777**
			0.43	*8.15*	*0.46*
Hydro or Air Seeding for large areas, incl. seed and (Note: fertilizer.From MEANS B.C. 1995(029 304 1000))	47,190	SY	20,136	1,641	21,777
			27.45		*29.69*
PROTECTION LAYER (Note: 12" Sand & Gravel)	**12,584**	**CY**	**345,442**	**28,154**	**373,596**
			27.45	*8.15*	*29.69*
Spread Granular Fill w/Dozer	12,584	CY	345,442	28,154	373,596
			8.93		*9.66*
GRANULAR DRAINAGE LAYER	**37,752**	**SY**	**337,099**	**27,474**	**364,572**
			8.93	*8.15*	*9.66*
Landfill gas and leachate control systems, polyethylene drainage net, geotextile fabric, heat bonded, both sides	37,752	SY	337,099	27,474	364,572
			1.19		*1.29*
LOW PERMEABILITY LAYER (Note: This will be a 60 mil LLDPE geomembrane underlain by a Geosynthetic Clay Liner (GCL))	**37,752**	**SY**	**44,912**	**3,660**	**48,573**
			1.19	*8.15*	*1.29*
Secure burial cell construction, polymeric liner and cover system, very low density polyethylene (VLDPE), 60 mil	37,752	SF	44,912	3,660	48,573
			11.60		*12.54*

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
GEOCOMPOSITE VENT LAYER	**37,752**	**SY**	**437,861**	**35,686**	**473,547**
(Note: High strenth, high flow geonet with a non-wovven geotextile filter bonded to both sides. includes 6" Sand/Silt subgrade layer)					
			0.99	*8.15*	*1.07*
Landfill gas and leachate control systems, polyethylene drainage net, geotextile fabric, heat bonded, both sides	339,768	SF	337,099	27,474	364,572
			16.01	*8.15*	*17.32*
Spread Granular Fill w/Dozer 6"	6,292	CY	100,763	8,212	108,975
(Note: Used recent quote for deliveredmaterial 12/5/95 from BardonTrimount.Granular Backfill = $14.85/CY)					
LIQ/SED/SLUDGES COLLECT-CONTAIN	**1**	**LS**	**18,837,733**	**1,389,588**	**20,227,320**
			243.16		*259.04*
DREDGING/EXCAVATING	**37,000**	**CY**	**8,996,917**	**587,561**	**9,584,478**
(Note: Includes material dredged to construct the 1/2 dike outside of the sheetpile wall.)					
			243.16		*259.04*
DREDGING THE 1/2 DIKE FOOTPRIINT (Outside of Sheetpile Wall)	**37,000**	**CY**	**8,996,917**	**587,561**	**9,584,478**
(Note: Dredging less contaminated (< 10 ppm PCB) material outside the wall, placing it inside the CDF wall in a single motion and stockpiling on shore using a dozer. Assume 25% of the material will be contaminated (> 10 ppm PCB) and will be dewatered and T&D offsite at a cost of $500/cy.)					
			500.00		*525.00*
Contaminated Dredged Material	**9,250**	**CY**	**4,625,000**	**231,250**	**4,856,250**
(Note: 25% of material from outside the wall. assumed handled as other material in the harbor at the historic cost of about $500/cy including markup.)					
			500.00	*5.00*	*525.00*
Dredging Contaminated Material	9,250	CY	4,625,000	231,250	4,856,250
(Note: Historic Price Assumed including all markup.)					
			157.55		*170.39*
Dredging Less-Contaminated Material	**27,750**	**CY**	**4,371,917**	**356,311**	**4,728,228**
(Note: 75% of the material from outside the wall. Eventually the material will be moved using a dozer, then loaded onto trucks for disposal at a landfill.)					
			795.72	*8.15*	*860.57*
BARGE MTD CLAMSHELL, 15 CY NON DREDGE,150T,150'B,200'X75X15	740	HR	588,832	47,990	636,822
			4.98	*8.15*	*5.39*
WORK BARGE-S,MED DUTY,60'X16'X5'	740	HR	3,687	300	3,987
			0.00	*0.00*	*0.00*
TUG BOAT, 150 - 400HP (112 - 298KW)	740	HR	0	0	0
			99.71	*8.15*	*107.84*
Clamshell Dredge- Operator	740	HR	73,788	6,014	79,802
			69.58	*8.15*	*75.25*
Clamshell Dredge- Mate	740	HR	51,490	4,196	55,686
			76.42	*8.15*	*82.65*
Clamshell Dredge- Engineer	740	HR	56,549	4,609	61,158
			59.01	*8.15*	*63.82*
Clamshell Dredge- Deckhand -2	1,480	HR	87,340	7,118	94,458
			67.30	*8.15*	*72.79*
Clamshell Dredge- Welder	740	HR	49,804	4,059	53,863
			76.10	*8.15*	*82.31*

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
Tugs/Tending- Tug Master	740	HR	56,316	4,590	60,906
			69.58	*8.15*	*75.25*
Tugs/Tending- Tug Mate	740	HR	51,490	4,196	55,686
			76.42	*8.15*	*82.65*
Tugs/Tending- Engineer	740	HR	56,549	4,609	61,158
			59.01	*8.15*	*63.82*
Tugs/Tending- Deckhand	740	HR	43,670	3,559	47,229
			97.67	*8.15*	*105.63*
T&D waste excess excavated materials to landfill	33,300	LCY	3,252,402	265,071	3,517,473
(Note: Includes 75% of total with allowance of 20% for swell. Assume $100/cy)					
LAGOONS/BASINS/TANKS/DIKES	**1**	**LS**	**9,840,815**	**802,026**	**10,642,842**
			5,430.90		*5,873.52*
OFFSHORE BERM	**1,462**	**LF**	**7,939,977**	**647,108**	**8,587,085**
(Note: Steel sheet pile (AZ 36) with timber lagging and grouted interior side. Outside will be half-dike with crushed rock, processed gravel and riprap and a vegetated upper slope.)					
			2,881.79		*3,116.65*
WALL	**1,462**	**LF**	**4,213,175**	**343,374**	**4,556,549**
			1,979.81		*2,141.17*
AZ36 Sheetpile	**1,785**	**TON**	**3,533,966**	**288,018**	**3,821,984**
(Note: Includes 480 pieces @ 54' and 982 pieces @ 49' Also includes Soldier Piles W10 X 30 to support the sheetpile and hold the timber lagging: 355 pieces @ 20')					
			1,963.28	*8.15*	*2,123.28*
AZ 39 Sheet piling, steel, 39 psf, 40' excavation, left in place, excludes wales	1,678	TON	3,294,378	268,492	3,562,870
			34.18	*8.15*	*36.96*
Piles, steel, 20' long, W10 x 30, excludes mobilization or demobilization	7,010	VLF	239,588	19,526	259,114
(Note: Modified cost from H section 8 X 36. Used material costs from Means 2006. Project requires 355 piles 20' long at 4' O.C....about 107 tons)					
			4.83		*5.22*
Timber Lagging	**21,400**	**BF**	**103,381**	**8,426**	**111,806**
(Note: 3,240 pieces 3" x 6" x 4'. Total quantity in 19,440 BF, add 10% for waste = 21,384 bf)					
			5.32	*8.15*	*5.75*
3" x6" wood column framing, heavy mill timber, structural grade, 1500f	19,440	BF	103,381	8,426	111,806
(Note: Estimate 3240 pieces 4' long are required to fill between steel columns. Total is 19,440 BF)					
			209.39		*226.46*
Grout	**2,750**	**CY**	**575,828**	**46,930**	**622,758**
(Note: Assume a concrete flowable fill at $125/cy)					
			209.39	*8.15*	*226.46*
Slurry wall installation, soil, bentonite backfill mixing per cubic yard	2,750	CY	575,828	46,930	622,758
(Note: The annular space between the sheetpile and the lagging will be filled with bentonite grout. Material cost assumed $125/cy, no references available.)					
			2,549.11		*2,756.86*
BERM	**1,462**	**LF**	**3,726,802**	**303,734**	**4,030,536**
			38.64		*41.79*
Crushed Rock	**89,000**	**CY**	**3,438,622**	**280,248**	**3,718,870**
(Note: Major fill material outside wall. MHD data base indicates $30/cy for normal projects. Assume construction will begin at a shore end and extended as material is delivered via 25 cy haulers. A					

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
dozer will spread and grade the areas above water and a hydraulic excavator will grade the water side material with a smooth bucket. Assume the dozer can spread 200 cy/hr and the hydraulic excavator will need only half that to grade the slope.)					
			131.74	*8.15*	*142.47*
TRACTOR, CRAWLER (DOZER), 136-180 HP (101-134KW), POWERSHIFT (W/UNIVERSAL BLADE)	445	HR	58,623	4,778	63,401
			36.52	*8.15*	*39.50*
Crushed Stone delivered to site	89,000	CY	3,250,269	264,897	3,515,166
			576.58	*8.15*	*623.57*
4 laborer + 1 1.5 Cy Hydr. Excavator, Cwlr	225	HR	129,730	10,573	140,303
			37.31		*40.35*
Gravel Fill	**3,500**	**CY**	**130,584**	**10,643**	**141,226**
(Note: Well graded sand & gravel over the top of the berm including road bed.)					
			29.75	*8.15*	*32.17*
Fill, gravel, for embankments, 1 mile haul, spread, by dozer	4,025	LCY	119,726	9,758	129,483
(Note: Gravel is well graded and compacted. and includes the roadway surface.)					
			1.65	*8.15*	*1.79*
Rough grading, open site, small area, 75 H.P., dozer	3,500	BCY	5,780	471	6,251
			2.51	*8.15*	*2.72*
Aggregate subbase, prepare and roll sub-base, small areas to 2500 S.Y.	2,020	SY	5,078	414	5,492
(Note: for roadway on dike, 12' w x 1515' l = 18180 sf = 2020 sy)					
			60.69		*65.63*
RipRap	**2,100**	**CY**	**127,444**	**10,387**	**137,831**
(Note: Assumed dumped from trucks using the gravel road on the dike, and graded with a hydraulic excavator)					
			55.17	*8.15*	*59.67*
Rip-rap, random pieces, dumped from truck, 50 - 1000 pound pieces	2,310	LCY	127,444	10,387	137,831
(Note: Estimated quantity is 2,100 CY. Included 10% for loss and waste.)					
			12.56		*13.58*
Clay Fill from Dredging	**1,100**	**CY**	**13,814**	**1,126**	**14,940**
			2.87	*8.15*	*3.10*
Backfill, waste excess excavated materials on site	1,320	LCY	3,784	308	4,092
(Note: Allow 25% for swell.)					
			626.88	*8.15*	*677.97*
Barge, Tugboat, Operator and 2 Laborers	16	HR	10,030	817	10,847
			16,337.84		*17,669.38*
Vegetation of upper slope	**1**	**EA**	**16,338**	**1,332**	**17,669**
Allowance for vegatation	1	LS	16,338	1,332	17,669
			380.27		*411.26*
SHORELINE BERM	**1,175**	**LF**	**446,813**	**36,415**	**483,229**
(Note: This berm will be constructed of imported granular fill in horizontal lifts with a 60 mil HDPE liner on the inside slope. Site demolition will include intake structures, piplines, timber bulkheads, a boat rail, and several old foundations and the site will be excavated to a level of -1.0'.)					
			20.05		*21.69*
Common Borrow	**15,000**	**CY**	**300,783**	**24,514**	**325,297**

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
			20.05	*8.15*	*21.69*
Backfill, dumped gravel or fill, 6" layers, spread, dozer (Note: MHD AVG COST $20/CY IN PLACE)	15,000	LCY	300,783	24,514	325,297
			20.05		*21.69*
Gravel Base for Road	**350**	**CY**	**7,018**	**572**	**7,590**
			20.05	*8.15*	*21.69*
Backfill, dumped gravel or fill, 6" layers, spread, dozer	350	LCY	7,018	572	7,590
			54.99		*59.47*
Sand on Berm	**1,200**	**LF**	**65,986**	**5,378**	**71,364**
			20.30		*21.96*
Bedding Sand 12" (Note: Volume = 1200 lf x 35 lf x 1' t /27 = 1557, say 1650 cy)	**1,650**	**CY**	**33,501**	**2,730**	**36,231**
			20.30	*8.15*	*21.96*
Spread Granular Fill w/Dozer	1,650	CY	33,501	2,730	36,231
			20.30		*21.96*
Cover Sand 12"	**1,600**	**CY**	**32,486**	**2,648**	**35,133**
			20.30	*8.15*	*21.96*
Spread Granular Fill w/Dozer (Note: mhd AVG COST)	1,600	CY	32,486	2,648	35,133
			1.30		*1.41*
Geomembrane Liner	**56,000**	**SF**	**73,026**	**5,952**	**78,978**
			1.30	*8.15*	*1.41*
Membrane lining systems, HDPE, 100,000 S.F. or more, 60 mil thick (Note: This accounts for the membrane under the shoreline berm only, however it is contiguous with the membrane on the base of the CDF which is included under 'Base Fills and Liners'. All seams will be 'hot shoe fusion' or 'extrusion welding' and will run down slopes (not across). It is assumed the the liner over the berm will be placed using a spreader bar assembly attached to a loader bucket.)	56,000	SF	73,026	5,952	78,978
			42.77		*46.25*
BASE FILLS AND LINERS (Note: It is expected that woking directly on the base of the CDF with heavy equipment will not be feasible due to the soft wet sediment. The geomembrane on the shoreline berm may be placed conventionally with a spreader bar and loader. The remaining areas will require the use floating plant to install liners. A 50 ton crane mounted on a deck barge with a winch system will be used to handle rolls of liner material. This support crew has been included in 'geomembrane' item entirely., but its use on the 'geotextile' is assued as well.)	**34,000**	**SY**	**1,454,025**	**118,503**	**1,572,529**
			37.62		*40.69*
GeoMembrane Liner	**16,000**	**SY**	**601,933**	**49,058**	**650,990**
			1.99	*8.15*	*2.15*
Membrane lining systems, HDPE, 100,000 S.F. or more, 60 mil thick (Note: Used premium cost for material: $1.00/sf. Added 20% for waste and overlap.)	172,800	SF	343,911	28,029	371,940
			29.85	*8.15*	*32.28*
WORK BARGE, FLAT DECK , 1000 TON APPROX. 100'x 40'x 9',WOOD DECK (Note: Assume 60 days at 8 hours/day)	480	HR	14,327	1,168	15,495
			179.49	*8.15*	*194.11*
CRANES, HYDRAULIC, SELF-PROPELLED, ROUGH TERRAIN, 50 TON, 110' BOOM, 4X4 (Note: Assume 30 days @ 8hr/day)	240	HR	43,077	3,511	46,587

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
			64.54	*8.15*	*69.80*
MARINE EQUIPMENT, BOATS & LAUNCHES, 18' (5.5 M) LONG, R-RUNNER V-HULL, 1,350 LBS (612 KG), NO CABIN, OUTBOARD ENGINE (Note: 2 boats for 60 days)	960	HR	61,959	5,050	67,008
			120.46	*8.15*	*130.27*
Clamshell Dredge- Operator	240	HR	28,909	2,356	31,265
			120.46	*8.15*	*130.27*
Clamshell Dredge- Operator	240	HR	28,909	2,356	31,265
			84.21	*8.15*	*91.07*
Tugs/Tending- Tug Mate (Note: 2 men to operate launches for 60 days)	960	HR	80,841	6,589	87,430
			4.45		*4.82*
GeoTextile Liner	**18,000**	**SY**	**80,177**	**6,534**	**86,711**
			3.71	*8.15*	*4.01*
Drainage geotextiles, non-woven polypropylene, 60 mils thick (Note: Add 20% for waste and overlap.)	21,600	SY	80,177	6,534	86,711
			26.09		*28.22*
Pumped Sand (Note: Sand slurry ppumped into facility to level bottom.)	**6,000**	**CY**	**156,553**	**12,759**	**169,312**
			26.09	*8.15*	*28.22*
Slurry wall installation, normal soil, 26' - 75' excavation (Note: Assumed MHD avg cost for material in place is $20/cy Pumping cost added.)	6,000	CY	156,553	12,759	169,312
			20.30		*21.96*
Cover Sand	**17,000**	**CY**	**345,159**	**28,130**	**373,289**
			20.30	*8.15*	*21.96*
Spread Granular Fill w/Dozer (Note: mhd AVG COST)	17,000	CY	345,159	28,130	373,289
Control of Water (Note: Place holder for expected dewatering effort. Actual task is not defined.)	**1**	**LS**	**270,205**	**22,022**	**292,226**
			1,351.02	*8.15*	*1,461.13*
Dewatering, sump hole construction, pit with gravel collar, corrugated, 12" gravel collar, 15" corr. pipe, 16 ga, includes excavation and gravel pit	200	LF	270,205	22,022	292,226
DEMOBILIZATION	**1**	**LS**	**24,673**	**2,011**	**26,683**
REMOVAL OF TEMPORARY FACILITIES	**1**	**LS**	**14,443**	**1,177**	**15,620**
			451.33		*488.12*
REMOVAL OF TEMPORARY FACILITIES (Note: Assumed a basic crew for 4 days to take down trailers and put finishingtouches on the site before mobilizing the equipment.)	**32**	**HR**	**14,443**	**1,177**	**15,620**
			451.33	*8.15*	*488.12*
REMOVAL OF TEMPORARY FACILITIES	32	HR	14,443	1,177	15,620
DEMOB OF CONSTRUCTION EQUIP/FACL	**1**	**LS**	**10,230**	**834**	**11,064**
			639.37		*691.48*

Description	Quantity	UOM	ContractCost	OwnerMarkup	ProjectCost
TRANSPORT VEHICLES OWNRSHP/OPN	**16**	**HR**	**10,230**	**834**	**11,064**
(Note: Assumed a basic truck crew and representative equipment for 2 days to mobilze all equipment from the site.)					
			639.37	*8.15*	*691.48*
TRANSPORT VEHICLES OWNRSHP/OPN	16	HR	10,230	834	11,064