Screening Analysis – Summary of Costs							
Baseline Tanker	MEASURE	New Total Cargo Oil	Cargo Oll Shut-Out		One-time refit (ROM)	Opportunity Costs Per Year	
		(cu.m.)	(cu.m.)	initial	(M\$)	national	Coastal
70,000 dwt	1.a. PL/Spaces,	523,444	7,072	1.3%	1.9	\$6,402,000	\$9,918,000
Pre-MARPOL	30% coverage	83,221	1,124				
70,000 DWT	1.b. PL/SBT, 30% coverage,	470,283	60,233	11.4%	0.5	\$6,402,000	\$9,918,000
Pre-MARPOL	with ballast to max.	74,769	9,576				-
	feasible draft		I				
70,000 dwt	1.c. PL/CBT, 30% coverage,	470,283	60,233	11.4%	0.2	\$6,402,000	\$9,918,000
Pre-MARPOL	empty to extent feasible	74,769	9,576				
70,000 dwt	2.a. HBL all tanks	389,854	153,655	28.3%	0	\$6,402,000	\$9,918,000
MARPOL 73		61,982	24,429				
70,000 dwt	2.b. HBL, equivalent to	477,892	65,617	12.1%	0	\$6,402,000	\$9,918,000
MARPOL 73	Regulation 13G	75,979	10,432				
70,000 dwt	3. PL/Spaces as in 1.c.	443,948	86,567	16.3%	0.2	\$6,402,000	\$9,918,000
Pre-MARPOL	and HBL as in 2.b.	70,582	13,763				
70,000 dwt	4. Retrofit double bottom	484,209	59,300	10.9%	9.7	\$6,402,000	\$9,918,000
MARPOL 73		76,983	9,428				
70,000 dwt	5. Retrofit double sides	502,573	502,573	7.5%	13.6	\$6,402,000	\$9,918,000
MARPOL 73		79,903	79,903				
12,700 dwt	6. PL/Spaces	237,072	12,844	5.1%	2.8	•	
Tank Barge	(install bulkheads)	37,691	2,042				
12,700 dwt	7. PL/Spaces using	207,712	42,203	16.9%	0.3	·	•
Tank Barge	existing cargo tanks	33,204	6,710				
264,000 dwt	1.a. PL/Spaces,	2,031,370	46,597	2.2%	12.4	\$11,279,000	\$12,143,000
Pre-MARPOL	30% coverage	322,962	7,408				·
264,000 dwt	1.b. PL/SBT, 30% coverage,	1,657,648	420,319	20.2%	1.8	\$11,279,000	\$12,143,000
Pre-MARPOL	with ballast to max.	263,545	66,825	ł		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
	feasible draft						
264,000 dwt	1.c. PL/CBT, 30% coverage,	1,657,648	932,159	20.2%	0.4	\$11,279,000	\$12,143,000
Pre-MARPOL	empty to extent feasible	263,545	148,201				
264,000 dwt	2.a. HBL all tanks	1,134,047	570,481	45.1%	0	\$11,279,000	\$12,143,000
MARPOL 73		180,299	90,699		· · · · ·		
264,000 dwt	2.b. HBL, equivalent to	1,495,725	652,153	27.6%	0	\$11,279,000	\$12,143,000
MARPOL 73	Regulation 13G	237,801	103,684				
264,000 dwt	3. PL/Spaces as in 1.c.	1,425,814	148,786	31.4%	0.4	\$11,279,000	\$12,143,000
Pre-MARPOL	and HBL as in 2.b.	306,715	23,655				
264,000 dwt	4. Retrofit double	1,929,181	148,786	7.2%	26.6	\$11,279,000	\$12,143,000
Pre-MARPOL	bottom	306,715	23,655				-
264,000 dwt	5. Retrofit double sides	1,921,087	156,880	7.5%	39.9	\$11,279,000	\$12,143,000
Pre-MARPOL	·	305,428	24,942				
31,000 dwt	6. PL/Spaces	97,015	6,483	6.3%	1.4	•	•
Tank Barge	(install buikheads)	15,424	1,031				
31,000 dwt	7. PL/Spaces using	68,281	35,217	34%	0.2	•	•
Tank Barge	existing cargo tanks	10,856	5,599				

Table 2 Screening Analysis – Summary of Costs

*Opportunity costs were not calculated for tank barges. However, if the opportunity costs for tank vessels were extrapolated to apply to tank barges and required shipyard time is accounted for, tank barge opportunity costs would range from \$2,506,000 to \$5,859,000.

BILLING CODE 4910-14-C