Table 3
Screening Analysis - Summary of Estimated Oil Outflows

Baseline Tanker Model	Measure	13F Total Mean Oil (Bbls) (cu.m.)	Reg. 13G Total Oil (Bbls) (cu.m.)	% Outflow of Total Oil Carried 13F	% Outflow of Total Oil Carried 13G	Annual Mean Accidental Oil Outflow	Annual Operational Oil Outflow	Total Annual Oil Outflow
70,000 dwt	1.a. PL/Spaces,	24,742	17,804	4.7%	3.4%	1,064	953	2,017
Pre-MARPOL	30% coverage	3,934	2,831			169	151	321
70,000 dwt	1.b. PL/SBT, 30% coverage,	18,130	14,497	3.9%	3.1%		0	780
Pre-MARPOL	with ballast to max.	2,882	2,305			780	0	124
	feasible draft					124		
70,000 dwt	1.c. PL/CBT, 30% coverage,	23,022	18,181	4.9%	3.9%	990	0	990
Pre-MARPOL	empty to extent feasible	3,660	2,891			157	0	157
70,000 dwt	2.a. HBL all tanks	15,191	9,726	3.9%	2.5%	653	0	653
MARPOL '73		2,415	1,546			104	0	104
70,000 dwt	2.b. HBL, equivalent to	18,907	15,408	4.0%	3.2%	813	0	813
MARPOL '73	Regulation 13G	3,006	2,450			129	0	129
70,000 dwt	3. PL/Spaces as in 1.c.	15,037	12,645	3.4%	2.8%	647	808	1,455
Pre-MARPOL	and HBL as in 2.b.	2,391	2,010			103	128	321
70,000 dwt	4. Retrofit double bottom	13,010	10,806	2.7%	2.2%	559	0	559
MARPOL '73		2,068	1,718			89	0	89
70,000 dwt	5. Retrofit double sides	26,519	20,056	5.3%	4.0%	1,140	0	1,140
MARPOL '73		4,216	3,189			181	0	181
12,700 dwt	6. PL/Spaces	8,195	5,835	3.5%	2.5%	337*	0	337*
Tank Barge	(install bulkheads)	1,303	928			53*	0	53*
12,700 dwt	7. PL/Spaces using	9,989	6,649	4.8%	3.2%	399*	0	399*
Tank Barge	existing cargo tanks	1588	1,057			63*	0	63*
264,000 dwt	1.a. PL/Spaces,	60,868	61,072	3.0%	3.0%	2,617	677	3,294
Pre-MARPOL	30% coverage	9,677	9,710			416	108	524
264,000 dwt	1.b. PL/SBT, 30% coverage,	45,659	39,933	2.8%	2.4%	1963	0	1,963
Pre-MARPOL	with ballast to max.	7,259	6,349			312	0	312
	feasible draft						0	
264,000 dwt	1.c. PL/CBT, 30% coverage,	81,422	66,510	4.9%	4.0%	3,502	0	3,502
Pre-MARPOL	empty to extent feasible	12,948	10,574			557	0	557
264,000 dwt	2.a. HBL all tanks	36,196	28,243	3.2%	2.5%	1,556	0	1,556
MARPOL '73		5,755	4,490			247	0	247
264,000 dwt	2.b. HBL, equivalent to	45,260	42,696	3.0%	2.9%	1,946	0	1,946
MARPOL '73	Regulation 13G	7,196	6,788			309	0	309
264,000 dwt	3. PL/Spaces as in 1.c.	47,976	44,508	3.4%	3.1%	2,063	475	2,538
Pre-MARPOL	and HBL as in 2.b.	7,628	7,076			328	76	404
264,000 dwt	4. Retrofit double	50,005	49,443	2.6%	2.6%	2,150	643	2,793
Pre-MARPOL	bottom	7,950	7,861			342	102	444
264,000 dwt	5. Retrofit double sides	52,938	57,655	2.8%	3.0%	2,276	640	2,917
Pre-MARPOL		8,416	9,166			362	102	464
31,000 dwt	6. PL/Spaces	5,669	4,358	5.8%	4.5%	241*	0	241*
Tank Barge	(install bulkheads)	901	693			38*	0	38*
31,000 dwt	7. PL/Spaces using	6,606	5,038	9.7%	7.4%	279*	0	279*
Tank Barge	existing cargo tanks	1,050	801			44*	0	44*

*Annual mean accidental oil outflow calculations were not done for tank barges. However, if the average combined collision and grounding probabilities for tank vessels are extrapolated to apply to tank barges, this estimated oil outflow results.

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