Table A3.3.1: Dilution Results of Grab Dredger Models (m³/s)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S1	DA	1,043	2,308	2,782	7,873	3,522	13,009	4,458	16,880
	S	1,327	3,036	3,672	8,839	5,498	52,808	7,333	99,365
S2	DA	117,981	242,426	179,463	195,697	257,978	277,111	461,971	777,811
	S	224,104	195,023	378,705	150,716	548,381	215,266	929,377	661,857
S3	DA	150,922	259,108	274,593	262,994	325,206	426,337	503,492	733,800
	S	234,758	138,323	411,019	148,766	503,928	228,633	701,764	812,797
S4	DA	160,937	97,081	270,271	114,768	326,616	247,118	543,053	1,005,427
	S	199,157	85,919	308,942	106,024	374,275	219,235	623,166	1,274,377
S5	DA	120,924	77,182	217,422	79,669	318,933	458,753	529,756	1,794,646
	S	260,747	67,724	397,929	73,843	470,885	420,521	711,141	1,838,279
S6	DA	103,010	75,219	182,602	89,323	276,277	603,974	456,600	1,318,583
	S	229,052	57,286	355,824	65,136	462,490	478,203	718,360	2,264,503
B1	DA	20,607,509	1,096,663	2,047,129	187,446	3,740,681	297,765	4,774,250	791,734
	S	32,568,622	2,357,757	3,507,307	236,976	6,399,713	367,924	8,181,565	964,562
	B	15,955,554	688,388	1,421,480	163,881	2,599,138	262,206	3,311,741	739,650
B2	DA	71,953	28,648	12,230	36,010	31,508	21,084	42,806	37,874
	S	96,341	50,055	22,644	42,827	55,486	31,821	75,760	39,951
	B	60,833	15,066	7,413	23,995	20,287	11,143	27,247	16,597
B3	DA	888,438,747	228,815,149	2,140,882,943	115,802,797	4,981,816,370	40,359,523	10,939,722,131	25,555,709
	S	2,281,641,230	231,694,941	5,434,162,405	117,069,150	13,372,523,743	38,468,492	27,687,945,776	24,374,549
	B	397,812,034	247,237,736	963,678,941	111,405,221	2,207,252,148	43,622,024	4,881,239,444	31,058,408
B4	DA	269,906,990	1,496,652	522,834,810	2,517,680	305,027,773	10,370,131	127,496,054	16,929,726
	S	335,454,524	12,995,316	647,245,002	16,807,966	890,717,829	58,980,348	893,032,560	91,856,887
	B	184,370,880	641,927	447,251,194	914,411	132,822,057	4,964,874	54,646,899	8,202,571
B5	DA	150,403,985	1,273,100	381,500,288	1,998,549	122,489,426	7,087,825	51,744,033	11,339,566
	S	346,503,948	3,858,114	770,356,675	5,944,031	1,087,691,896	20,290,273	642,021,598	31,512,440
	B	73,538,604	745,351	185,013,191	1,104,174	56,595,338	4,337,586	23,590,525	7,016,313
B6	DA	26,875,290,589	28,741,578,717	26,878,757,986	48,335,331,194	32,033,930,339	34,277,566,019	46,764,373,030	32,291,814,671
	S	47,049,081,602	67,756,186,140	43,899,119,823	118,151,635,809	52,958,528,177	88,093,308,432	78,571,877,554	86,452,839,976
	B	20,819,020,257	10,975,526,770	20,336,446,165	24,768,476,664	23,757,032,081	22,383,783,397	34,189,904,405	21,003,726,061
CR1	DA	2,558	5,068	3,601	8,757	3,658	10,993	5,368	17,658
	B	1,991	2,282	2,856	3,064	3,086	4,604	4,399	8,409
CR2	DA	1,105	1,751	2,004	3,150	2,730	5,666	3,704	14,623
	B	815	946	1,782	1,631	2,421	2,786	3,277	4,980
CR3	DA	7,095	24,181	8,831	27,966	9,792	37,701	17,704	78,415
	B	6,192	14,112	7,826	17,697	8,567	23,282	15,247	59,372
CR4	DA	10,493	69,715	12,654	61,517	14,055	54,237	26,655	48,119
	B	8,086	97,330	9,494	89,490	9,743	33,142	16,980	28,883
CR5	DA	34,925	510,131	43,888	162,618	52,249	52,132	96,208	42,212
	B	33,867	468,143	42,576	80,269	50,974	21,186	94,806	17,991
CR6	DA	238,242	1,146,211	304,822	471,894	338,906	190,957	264,583	113,226
	B	177,882	722,491	226,730	318,225	252,418	147,646	205,797	65,003
CR7	DA	305,354	221,155	537,666	205,105	811,919	288,807	1,417,410	635,413
	B	324,424	234,089	564,274	221,928	791,227	295,369	1,419,422	434,033
CR8	DA	67,320	242,009	98,615	192,381	138,831	266,385	289,971	396,305
	B	56,888	119,195	81,905	123,647	114,822	153,850	241,768	201,287
CR9	DA	129,988	93,578	228,970	100,063	281,228	596,541	464,572	1,841,817
	B	88,306	98,672	158,887	98,046	217,339	646,016	360,911	938,685
CR10	DA	237,340	169,055	520,641	359,481	1,064,779	568,088	1,441,325	833,556
	B	203,518	142,587	453,741	260,134	914,603	489,929	1,238,113	717,659
CR11	DA	1,551,446	425,592	2,366,982	416,193	2,844,885	610,445	3,747,775	927,085
	B	1,370,451	326,945	2,131,037	319,548	2,561,994	468,949	3,374,229	712,038
CR12	DA	4,464,505	1,550,181	7,660,722	1,616,640	9,785,885	2,393,444	13,241,929	3,415,837
	B	4,025,587	890,369	6,909,227	926,320	8,832,518	1,364,169	11,949,701	1,943,234
CR13	DA	2,213,256	433,920	4,202,687	416,785	7,223,659	1,553,246	9,561,601	2,187,724
	B	1,967,543	270,924	3,737,312	165,706	6,401,188	1,209,671	8,475,366	1,695,507
CR14	DA	4,575,863	1,321,398	9,557,214	654,549	18,845,559	3,533,819	24,326,639	5,012,657
	B	3,847,204	818,806	8,037,939	321,815	15,842,036	2,536,841	20,464,964	3,439,700
CR15	DA	52,812,531	791,308	117,820,602	769,604	67,229,603	4,577,350	30,378,332	7,356,890
	B	33,292,495	367,719	79,902,200	345,266	28,231,840	2,442,307	12,005,566	3,959,189
CR16	DA	88,339,223	1,096,306	180,370,626	2,030,354	128,176,535	9,563,429	52,140,090	15,401,913
	B	68,995,971	378,729	161,165,809	503,383	45,796,982	3,354,354	18,251,439	5,574,571
CR17	DA	77,190,870	73,758,279	155,811,051	80,234,284	267,140,396	154,423,698	316,552,866	208,676,345
	B	67,463,182	41,414,556	136,099,603	45,002,070	231,824,388	87,157,363	274,152,116	117,804,917
CR18	DA	4,232,965	145,781	518,460	67,781	907,713	110,504	1,158,559	178,235
	B	3,479,047	75,522	223,843	66,963	388,333	57,120	489,270	91,997
CR19	DA	42,410	26,348	8,990	12,712	23,673	13,889	32,360	30,219
	B	32,267	12,077	3,615	7,190	10,478	7,562	14,055	9,653

(continued on next page)

Table A3.3.2: Dilution Results of TSHD Models (m³/s)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S1	DA	712	2,400	3,879	5,423	5,584	14,269	19,282	27,840
	S	943	3,118	6,585	9,315	63,659	163,460	267,935	371,067
S2	DA	143,154	214,695	320,065	535,008	620,968	398,395	697,506	1,108,456
	S	271,416	452,745	679,380	1,068,292	404,696	305,709	543,771	888,620
S3	DA	182,816	325,053	382,900	573,635	596,951	484,550	989,286	1,408,574
	S	284,381	483,947	575,275	789,110	316,248	337,319	624,064	1,060,469
S4	DA	194,348	320,958	389,048	620,244	330,160	287,126	642,872	1,292,277
	S	232,241	367,090	446,086	711,683	262,759	257,113	641,034	1,251,403
S5	DA	145,638	266,445	380,009	605,910	392,466	191,583	752,831	1,718,739
	S	308,351	471,578	551,599	808,074	352,067	180,615	686,455	1,560,834
S6	DA	124,175	224,151	328,941	521,994	449,436	212,222	968,251	1,942,626
	S	271,139	425,994	550,212	816,427	386,369	157,672	809,323	1,868,056
B1	DA	22,159,879	1,805,602	4,366,221	5,892,856	1,997,619	16,022,406	11,671,826	5,963,314
	S	35,042,349	3,089,290	7,463,411	10,092,997	4,314,492	30,169,462	25,447,624	13,051,900
	B	17,159,988	1,255,249	3,036,201	4,089,762	1,251,211	9,603,380	7,273,997	3,707,727
B2	DA	78,862	14,398	37,336	52,986	52,946	274,100	231,054	184,540
	S	105,599	26,623	65,292	93,686	96,562	1,049,460	700,604	491,029
	B	66,670	8,829	24,102	33,804	28,125	100,454	82,905	83,967
B3	DA	1,096,438,330	2,702,074,653	6,212,453,484	12,396,351,010	543,448,726	183,942,551	91,761,640	90,047,095
	S	2,806,978,148	6,851,426,810	16,233,107,423	30,584,126,227	550,475,886	175,134,722	87,463,047	85,858,282
	B	491,741,206	1,216,142,590	2,766,580,810	5,553,519,265	553,522,896	200,171,747	111,502,733	109,428,945
B4	DA	300,156,081	595,298,334	383,025,827	162,854,249	1,991,163	4,120,432	14,062,700	18,723,962
	S	372,847,736	735,889,322	956,516,749	995,312,080	19,761,245	25,587,554	77,981,222	100,895,651
	B	241,995,983	520,331,972	167,388,390	69,703,898	809,854	1,922,515	6,781,408	9,100,258
B5	DA	197,048,218	486,414,445	153,396,819	66,212,888	1,775,902	3,128,402	9,360,316	12,527,922
	S	392,219,926	920,361,150	1,210,845,788	826,282,390	5,488,113	9,063,964	26,061,009	34,799,070
	B	96,529,755	236,218,984	71,081,794	30,148,451	1,028,280	1,889,045	5,832,876	7,707,426
B6	DA	27,668,257,591	26,678,191,645	32,467,743,297	42,269,535,923	35,604,293,878	47,045,097,430	42,256,675,498	38,033,949,103
	S	46,412,327,114	43,545,472,360	53,479,081,657	73,393,418,078	92,302,864,158	107,053,085,484	102,126,790,410	94,349,413,618
	B	21,363,321,740	20,190,354,664	24,187,072,493	32,187,045,358	14,815,714,732	29,872,771,865	27,144,776,666	24,321,727,816
CR1	DA	3,329	4,053	4,467	6,412	8,343	8,272	11,565	15,300
	B	2,394	3,300	3,759	5,303	3,492	3,909	5,722	7,356
CR2	DA	1,399	2,440	3,321	4,268	3,103	4,151	6,743	12,414
	B	1,112	2,167	2,949	3,763	1,391	1,940	2,884	4,356
CR3	DA	8,730	10,325	12,227	19,873	57,278	39,900	68,029	86,573
	B	7,616	9,032	10,685	17,937	33,191	25,348	39,191	61,495
CR4	DA	12,863	14,900	17,737	32,080	175,662	91,737	128,058	123,068
	B	9,969	11,269	12,245	20,475	252,035	145,545	76,050	70,257
CR5	DA	42,629	52,762	64,841	114,351	1,351,224	256,621	122,492	114,340
	B	41,393	51,064	63,324	112,699	1,290,837	135,030	46,255	40,537
CR6	DA	307,653	372,476	432,642	288,205	2,745,812	562,047	390,090	180,575
	B	228,753	276,957	322,254	224,182	1,780,414	487,686	257,688	103,587
CR7	DA	374,166	643,087	995,233	1,654,249	642,661	350,977	598,111	908,051
	B	397,385	675,210	969,932	1,663,318	654,104	364,003	581,889	798,639
CR8	DA	81,535	118,104	172,582	337,297	612,205	363,017	580,602	802,015
	B	68,895	98,144	142,944	281,490	299,601	179,972	271,046	352,085
CR9	DA	156,583	274,278	334,713	530,572	484,776	241,007	892,921	1,929,522
	B	106,415	194,830	258,815	412,048	531,169	235,665	1,004,988	1,512,342
CR10	DA	256,964	620,432	1,201,995	1,611,214	225,168	520,032	793,009	988,572
	B	220,453	540,593	1,032,515	1,384,045	189,400	397,523	682,804	839,398
CR11	DA	1,777,335	2,714,736	3,193,133	4,130,559	790,445	552,868	879,268	1,094,681
	B	1,541,146	2,444,420	2,875,381	3,718,398	606,873	424,392	677,824	839,976
CR12	DA	5,082,644	8,874,059	11,027,377	14,666,929	2,851,546	2,060,033	3,143,903	3,932,456
	B	4,581,922	8,003,522	9,952,229	13,234,095	1,643,712	1,182,658	1,801,042	2,255,417
CR13	DA	2,423,079	4,923,562	7,999,104	10,599,328	561,029	632,619	1,998,677	2,490,958
	B	2,154,439	4,378,399	7,089,132	9,394,611	355,125	259,195	1,559,826	1,948,501
CR14	DA	4,990,692	11,252,809	20,714,999	26,953,815	1,951,501	2,369,449	4,502,882	5,582,600
	B	4,196,796	9,457,964	17,410,380	22,667,564	1,203,568	1,404,309	3,060,715	3,955,180
CR15	DA	59,539,403	140,912,550	80,982,152	38,921,864	1,079,998	2,040,837	6,143,487	8,091,924
	B	40,648,589	100,615,769	34,153,939	15,337,776	483,585	1,036,213	3,299,492	4,367,709
CR16	DA	98,616,412	208,862,888	161,969,025	66,431,499	1,329,026	3,880,918	12,720,995	17,154,601
	B	94,256,037	215,246,791	58,157,455	23,204,279	436,740	1,293,683	4,590,778	6,180,011
CR17	DA	84,265,876	180,299,405	290,086,301	346,307,154	136,518,026	112,564,950	185,579,370	238,929,786
	B	73,645,295	157,428,996	251,560,936	299,651,505	76,645,972	63,239,107	104,702,065	134,821,766
CR18	DA	4,560,151	452,272	1,054,379	1,426,990	265,477	684,594	1,543,077	787,581
	B	3,751,458	195,537	452,923	604,398	137,143	189,705	621,396	399,858
CR19	DA	46,503	8,828	27,355	39,843	48,330	64,583	207,173	131,678
	B	35,263	3,587	12,168	17,346	20,624	13,895	50,597	41,439

(continued on next page)

Table A3.3.1: Dilution Results of Grab Dredger Models (m⁻/s) (cont'd)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
F1	DA	40,881	90,269	56,523	119,181	64,400	205,566	104,728	469,686
	S	51,434	97,912	71,019	133,175	80,882	241,953	131,514	502,086
	B	36,294	60,002	50,232	76,377	57,253	124,928	93,112	321,199
F2	DA	6,765,808	1,106,420	9,847,657	1,289,035	12,296,387	2,108,441	18,404,648	3,263,079
	S	8,088,717	1,798,018	11,786,018	1,735,268	14,716,574	4,597,004	22,029,780	11,960,678
	B	6,118,603	555,642	8,917,425	536,864	11,136,986	1,126,434	16,667,861	1,212,928
F3	DA	54,336,900	44,801,864	109,382,503	48,708,494	185,291,556	94,000,865	219,081,566	127,009,287
	S	68,268,240	181,470,748	137,195,477	197,749,609	232,953,076	368,012,365	275,237,943	497,237,844
	B	47,989,250	26,567,905	96,543,734	27,165,793	163,896,273	56,236,960	193,681,340	76,033,485
FP1	DA	388,526	59,234	1,241,721	46,151	567,096	326,142	293,825	207,484
	S	438,562	299,740	1,445,502	43,396	659,235	1,290,642	341,880	4,337,379
	B	357,795	30,410	1,119,968	30,447	494,841	157,068	266,662	136,672
FP3	DA	5,088	7,868	4,945	5,742	2,106	2,531	1,245	1,854
	S	5,861	12,147	5,713	33,027	2,134	3,570	1,377	1,963
	B	4,630	6,135	4,412	4,066	2,016	1,238	1,006	749
FP4	DA	18,792	285,424	24,237	216,078	30,381	83,351	61,474	74,651
	S	20,139	642,797	25,926	302,894	32,259	126,122	64,719	83,054
	B	17,692	432,160	22,871	184,901	28,890	32,613	56,583	28,032
GT1	DA	42,410	26,348	8,990	12,712	23,673	13,889	32,360	30,219
	S	67,288	150,443	23,047	11,864	77,337	26,089	113,085	41,914
	B	32,267	12,077	3,615	7,190	10,478	7,562	14,055	9,653
GT2	DA	4,329	5,015	2,391	4,895	2,950	3,346	3,245	2,488
	S	5,604	13,909	2,917	20,671	4,121	4,190	6,508	1,759
	B	3,821	3,191	2,078	1,393	1,557	1,725	2,137	2,428
GT3	DA	50,875	57,566	15,533	6,289	3,111	2,924	2,548	2,401
	S	61,521	29,146	20,290	13,193	3,729	7,255	3,575	5,110
	B	46,677	30,358	13,590	4,071	2,746	1,705	2,126	1,326
GT4	DA	26,036	308,994	32,778	62,905	18,906	11,231	9,221	6,612
	S	30,424	231,995	38,233	97,815	26,020	28,680	12,802	15,118
	B	23,778	227,789	29,983	47,990	18,324	8,012	8,299	4,173
GT5	DA	53,089	1,328,198	66,522	378,897	76,798	139,699	132,662	125,443
	S	53,693	10,284,447	66,813	1,901,520	76,697	413,377	134,609	204,177
	B	64,027	598,896	81,450	168,703	96,690	58,156	165,991	50,236
PMP1	DA	7,883	6,406	5,054	9,130	5,953	4,780	7,949	3,583
	S	11,583	21,583	7,360	25,719	13,011	8,468	16,679	3,389
	B	6,245	3,531	3,794	3,972	3,200	2,669	3,904	3,157
SS1	DA	32,658,713	8,873,429	42,071,429	3,439,558	48,086,864	1,316,787	57,937,092	662,976
	S	48,318,282	12,436,651	62,246,346	3,422,595	71,039,377	1,198,140	85,722,123	355,852
	B	25,990,228	5,344,650	33,479,527	2,202,944	38,287,917	835,443	46,189,803	489,103

Note: DA represents depth-averaged, S represents surface layer, B represents bottom layer.

Table A3.3.2: Dilution Results of TSHD Models (m⁻/s) (cont'd)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
F1	DA	50,138	65,952	79,163	124,409	261,712	216,355	337,740	536,671
	S	63,096	82,882	99,444	156,255	258,387	236,820	369,635	579,009
	B	44,505	58,604	70,367	110,598	252,117	124,636	252,862	421,857
F2	DA	8,199,880	12,058,566	14,918,315	21,644,694	3,177,508	1,932,285	3,256,438	5,090,380
	S	9,803,345	14,428,099	17,855,899	25,908,951	5,272,398	5,164,062	8,997,823	13,987,207
	B	7,415,097	10,913,004	13,512,126	19,601,770	1,870,386	1,085,396	1,947,867	2,199,030
F3	DA	59,308,463	126,325,630	200,938,382	239,185,811	82,929,054	68,391,033	112,941,772	145,421,759
	S	74,507,875	158,500,961	252,606,903	300,281,364	334,273,757	274,422,957	443,217,225	570,112,426
	B	52,377,959	111,578,377	177,704,169	211,403,529	49,185,730	38,504,189	67,531,064	86,964,084
FP1	DA	472,965	1,528,250	695,657	365,307	61,823	145,660	354,582	306,796
	S	527,741	1,781,785	809,042	425,165	308,334	224,274	3,733,321	4,873,104
	B	437,285	1,379,670	633,770	331,603	30,842	87,865	169,498	146,444
FP3	DA	7,456	5,787	2,731	1,379	17,846	5,406	2,839	1,355
	S	8,669	6,737	3,275	3,277	23,138	50,604	25,397	25,923
	B	6,761	5,221	2,231	693	12,391	3,124	1,117	347
FP4	DA	23,283	28,658	39,049	74,930	692,746	333,247	200,145	191,350
	S	24,969	30,673	41,436	77,801	1,481,655	547,169	333,487	352,868
	B	21,904	27,029	37,154	67,220	1,171,440	344,882	76,631	65,257
GT1	DA	46,503	8,828	27,355	39,843	48,330	64,583	207,173	131,678
	S	74,049	27,806	92,672	120,244	397,133	1,264,835	2,842,872	2,072,058
	B	35,263	3,587	12,168	17,346	20,624	13,895	50,597	41,439
GT2	DA	4,857	2,688	3,789	3,181	8,220	5,372	3,722	3,424
	S	6,245	3,318	5,041	5,913	35,162	223,891	95,697	32,827
	B	4,310	2,357	2,172	1,793	4,721	1,192	985	952
GT3	DA	64,082	23,996	3,645	2,243	125,324	7,276	3,068	2,038
	S	77,596	31,753	4,387	3,266	71,513	20,448	14,421	14,097
	B	58,745	21,022	3,227	1,920	76,207	4,499	1,546	793
GT4	DA	32,987	39,910	23,996	10,110	819,316	79,227	16,404	5,765
	S	38,592	46,622	33,024	14,015	677,461	127,468	73,174	68,058
	B	30,093	36,460	23,143	9,106	642,042	86,995	11,644	3,370
GT5	DA	65,861	79,672	96,206	158,637	3,471,873	668,253	389,451	373,818
	S	66,675	80,135	96,051	161,413	23,039,670	4,748,000	1,208,578	1,268,422
	B	80,821	98,990	121,270	199,414	1,574,483	297,359	139,346	128,955
PMP1	DA	8,963	5,516	8,386	8,098	10,818	15,420	12,706	7,068
	S	13,159	8,026	14,684	17,241	53,346	251,466	135,003	50,626
	B	7,101	4,243	4,715	3,989	5,373	5,122	4,083	2,783
SS1	DA	42,547,941	53,226,596	61,314,334	67,289,770	20,555,111	5,506,911	3,011,976	2,604,329
	S	62,954,849	78,752,559	90,582,172	99,569,858	32,421,532	4,401,718	2,376,324	2,112,218
	B	33,861,803	42,356,011	48,817,875	53,642,601	12,539,421	2,968,566	1,926,920	1,645,075

Note: DA represents depth-averaged, S represents surface layer, B represents bottom layer.

Table A3.3.3: Calculated Maximum Allowable SS Release based on Grab Dredger Dilution Test Models (kg/s)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S1	DA	90.8	211	242	720	306	1,189	388	1,543
	S	120	286	333	833	499	4,975	665	9,360
S2	DA	555	1,358	843	1,096	1,212	1,552	2,171	4,356
	S	1,389	1,385	2,348	1,070	3,400	1,528	5,762	4,699
S3	DA	498	622	906	631	1,073	1,023	1,662	1,761
	S	563	194	986	208	1,209	320	1,684	1,138
S4	DA	531	233	892	275	1,078	593	1,792	2,413
	S	478	120	741	148	898	307	1,496	1,784
S5	DA	399	185	717	191	1,052	1,101	1,748	4,307
	S	626	94.8	955	103	1,130	589	1,707	2,574
S6	DA	340	181	603	214	912	1,450	1,507	3,165
	S	550	80.2	854	91.2	1,110	669	1,724	3,170
B1	DA	80,369	2,851	7,984	487	14,589	774	18,620	2,059
	S	91,192	4,008	9,820	403	17,919	625	22,908	1,640
	B	76,587	2,547	6,823	606	12,476	970	15,896	2,737
B2	DA	281	74.5	47.7	93.6	123	54.8	167	98.5
	S	270	85.1	63.4	72.8	155	54.1	212	67.9
	B	292	55.7	35.6	88.8	97.4	41.2	131	61.4
B3	DA	2,843,004	388,986	6,850,825	196,865	15,941,812	68,611	35,007,111	43,445
	S	5,019,611	324,373	11,955,157	163,897	29,419,552	53,856	60,913,481	34,124
	B	1,790,154	618,094	4,336,555	278,513	9,932,635	109,055	21,965,577	77,646
B4	DA	1,646,433	4,939	3,189,292	8,308	1,860,669	34,221	777,726	55,868
	S	1,912,091	35,087	3,689,297	45,382	5,077,092	159,247	5,090,286	248,014
	B	1,235,285	3,017	2,996,583	4,298	889,908	23,335	366,134	38,552
B5	DA	917,464	4,201	2,327,152	6,595	747,185	23,390	315,639	37,421
	S	1,975,073	10,417	4,391,033	16,049	6,199,844	54,784	3,659,523	85,084
	B	492,709	3,503	1,239,588	5,190	379,189	20,387	158,057	32,977
B6	DA	120,938,808	89,098,894	120,954,411	149,839,527	144,152,687	106,260,455	210,439,679	100,104,625
	S	188,196,326	162,614,847	175,596,479	283,563,926	211,834,113	211,423,940	314,287,510	207,486,816
	B	124,914,122	49,389,870	122,018,677	111,458,145	142,542,192	100,727,025	205,139,426	94,516,767
CR1	DA	8.44	12.2	11.9	21.0	12.1	26.4	17.7	42.4
	B	9.56	11.0	13.7	14.7	14.8	22.1	21.1	40.4
CR2	DA	3.65	5.43	6.61	9.77	9.01	17.6	12.2	45.3
	B	3.67	5.21	8.02	8.97	10.9	15.3	14.7	27.4
CR3	DA	22.0	53.2	27.4	61.5	30.4	82.9	54.9	173
	B	27.9	48.0	35.2	60.2	38.6	79.2	68.6	202
CR4	DA	32.5	153	39.2	135	43.6	119	82.6	106
	B	36.4	331	42.7	304	43.8	113	76.4	98.2
CR5	DA	108	1,122	136	358	162	115	298	92.9
	B	152	1,592	192	273	229	72.0	427	61.2
CR6	DA	929	2,980	1,189	1,227	1,322	496	1,032	294
	B	854	2,673	1,088	1,177	1,212	546	988	241
CR7	DA	977	376	1,721	349	2,598	491	4,536	1,080
	B	1,460	585	2,539	555	3,561	738	6,387	1,085
CR8	DA	209	532	306	423	430	586	899	872
	B	256	405	369	420	517	523	1,088	684
CR9	DA	429	225	756	240	928	1,432	1,533	4,420
	B	424	474	763	471	1,043	3,101	1,732	4,506
CR10	DA	902	964	1,978	2,049	4,046	3,238	5,477	4,751
	B	916	1,283	2,042	2,341	4,116	4,409	5,572	6,459
CR11	DA	5,895	2,426	8,995	2,372	10,811	3,480	14,242	5,284
	B	6,167	2,943	9,590	2,876	11,529	4,221	15,184	6,408
CR12	DA	16,965	8,836	29,111	9,215	37,186	13,643	50,319	19,470
	B	18,115	8,013	31,092	8,337	39,746	12,278	53,774	17,489
CR13	DA	8,410	2,473	15,970	2,376	27,450	8,854	36,334	12,470
	B	8,854	2,438	16,818	1,491	28,805	10,887	38,139	15,260
CR14	DA	15,100	4,096	31,539	2,029	62,190	10,955	80,278	15,539
	B	17,312	4,503	36,171	1,770	71,289	13,953	92,092	18,918
CR15	DA	322,156	2,611	718,706	2,540	410,101	15,105	185,308	24,278
	B	223,060	1,728	535,345	1,623	189,153	11,479	80,437	18,608
CR16	DA	538,869	3,618	1,100,261	6,700	781,877	31,559	318,055	50,826
	B	462,273	1,780	1,079,811	2,366	306,840	15,765	122,285	26,200
CR17	DA	347,359	228,651	701,150	248,726	1,202,132	478,713	1,424,488	646,897
	B	404,779	186,366	816,598	202,509	1,390,946	392,208	1,644,913	530,122
CR18	DA	16,509	379	2,022	176	3,540	287	4,518	463
	B	16,699	279	1,074	248	1,864	211	2,348	340
CR19	DA	165	68.5	35.1	33.1	92.3	36.1	126	78.6
	B	155	44.7	17.4	26.6	50.3	28.0	67.5	35.7

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Table A3.3.4: Calculated Maximum Allowable SS Release based on TSHD Dilution Test Models (kg/s)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
S1	DA	61.9	510	209	1,304	337	1,762	472	2,545
	S	85.5	5,997	283	15,398	597	25,239	845	34,955
S2	DA	673	3,477	1,009	2,231	1,504	3,906	2,515	6,207
	S	1,683	2,873	2,807	2,171	4,212	3,861	6,623	6,309
S3	DA	603	1,433	1,073	1,163	1,264	2,374	1,893	3,381
	S	683	443	1,161	472	1,381	874	1,894	1,485
S4	DA	641	792	1,059	689	1,284	1,543	2,047	3,101
	S	557	368	881	360	1,071	897	1,708	1,752
S5	DA	481	942	879	460	1,254	1,807	2,000	4,125
	S	740	493	1,132	253	1,324	961	1,939	2,185
S6	DA	410	1,079	740	509	1,086	2,324	1,723	4,662
	S	651	541	1,022	221	1,321	1,133	1,959	2,615
B1	DA	86,424	5,194	7,042	41,658	17,028	30,347	22,982	15,505
	S	98,119	7,335	8,650	51,288	20,898	43,261	28,260	22,188
	B	82,368	4,629	6,025	35,533	14,574	26,914	19,631	13,719
B2	DA	308	138	56.2	713	146	601	207	480
	S	296	164	74.5	1,784	183	1,191	262	835
	B	320	104	42.4	372	116	307	162	311
B3	DA	3,508,603	923,863	8,646,639	312,702	19,879,851	155,995	39,668,323	153,080
	S	6,175,352	770,666	15,073,139	245,189	35,712,836	122,448	67,285,078	120,202
	B	2,212,835	1,383,807	5,472,642	500,429	12,449,614	278,757	24,990,837	273,572
B4	DA	1,830,952	6,571	3,631,320	13,597	2,336,458	46,407	993,411	61,789
	S	2,125,232	53,355	4,194,569	69,086	5,452,145	210,549	5,673,279	272,418
	B	1,621,373	3,806	3,486,224	9,036	1,121,502	31,873	467,016	42,771
B5	DA	1,201,994	5,860	2,967,128	10,324	935,721	30,889	403,899	41,342
	S	2,235,654	14,818	5,246,059	24,473	6,901,821	70,365	4,709,810	93,957
	B	646,749	4,833	1,582,667	8,879	476,248	27,415	201,995	36,225
B6	DA	124,507,159	110,373,311	120,051,862	145,839,802	146,104,845	130,995,694	190,212,912	117,905,242
	S	185,649,308	221,526,874	174,181,889	256,927,405	213,916,327	245,104,297	293,573,672	226,438,593
	B	128,179,930	66,670,716	121,142,128	134,427,473	145,122,435	122,151,495	193,122,272	109,447,775
CR1	DA	11.0	20.0	13.4	19.9	14.7	27.8	21.2	36.7
	B	11.5	16.8	15.8	18.8	18.0	27.5	25.5	35.3
CR2	DA	4.62	9.62	8.05	12.9	11.0	20.9	14.1	38.5
	B	5.00	7.65	9.75	10.7	13.3	15.9	16.9	24.0
CR3	DA	27.1	126	32.0	87.8	37.9	150	61.6	190
	B	34.3	113	40.6	86.2	48.1	133	80.7	209
CR4	DA	39.9	386	46.2	202	55.0	282	99.4	271
	B	44.9	857	50.7	495	55.1	259	92.1	239
CR5	DA	132	2,973	164	565	201	269	354	252
	B	186	4,389	230	459	285	157	507	138
CR6	DA	1,200	7,139	1,453	1,461	1,687	1,014	1,124	469
	B	1,098	6,588	1,329	1,804	1,547	953	1,076	383
CR7	DA	1,197	1,093	2,058	597	3,185	1,017	5,294	1,544
	B	1,788	1,635	3,038	910	4,365	1,455	7,485	1,997
CR8	DA	253	1,347	366	799	535	1,277	1,046	1,764
	B	310	1,019	442	612	643	922	1,267	1,197
CR9	DA	517	1,163	905	578	1,105	2,143	1,751	4,631
	B	511	2,550	935	1,131	1,242	4,824	1,978	7,259
CR10	DA	976	1,283	2,358	2,964	4,568	4,520	6,123	5,635
	B	992	1,705	2,433	3,578	4,646	6,145	6,228	7,555
CR11	DA	6,754	4,506	10,316	3,151	12,134	5,012	15,696	6,240
	B	6,935	5,462	11,000	3,820	12,939	6,100	16,733	7,560
CR12	DA	19,314	16,254	33,721	11,742	41,904	17,920	55,734	22,415
	B	20,619	14,793	36,016	10,644	44,785	16,209	59,553	20,299
CR13	DA	9,208	3,198	18,710	3,606	30,397	11,392	40,277	14,198
	B	9,695	3,196	19,703	2,333	31,901	14,038	42,276	17,537
CR14	DA	16,469	6,050	37,134	7,345	68,359	13,959	88,948	17,306
	B	18,886	6,620	42,561	7,724	78,347	16,834	102,004	21,753
CR15	DA	363,190	3,564	859,567	6,735	493,991	20,274	237,423	26,703
	B	272,346	2,273	674,126	4,870	228,831	15,508	102,763	20,528
CR16	DA	601,560	4,386	1,274,064	12,807	988,011	41,979	405,232	56,610
	B	631,515	2,053	1,442,154	6,080	389,655	21,577	155,469	29,046
CR17	DA	379,196	423,206	811,347	348,951	1,305,388	575,296	1,558,382	740,682
	B	441,872	344,907	944,574	284,576	1,509,366	471,159	1,797,909	606,698
CR18	DA	17,785	690	1,764	1,780	4,112	4,012	5,565	2,048
	B	18,007	507	939	702	2,174	2,299	2,901	1,479
CR19	DA	181	126	34.4	168	107	539	155	342
	B	169	76.3	17.2	51.4	58.4	187	83.3	153

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Table A3.3.3: Calculated Maximum Allowable SS Release based on Grab Dredger Dilution Test Models (kg/s) (cont'd)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
F1	DA	127	199	175	262	200	452	325	1,033
	S	108	137	149	186	170	339	276	703
	B	163	204	226	260	258	425	419	1,092
F2	DA	14,208	1,992	20,680	2,320	25,822	3,795	38,650	5,874
	S	14,560	2,517	21,215	2,429	26,490	6,436	39,654	16,745
	B	15,297	1,334	22,294	1,288	27,842	2,703	41,670	2,911
F3	DA	244,516	138,886	492,221	150,996	833,812	291,403	985,867	393,729
	S	273,073	435,530	548,782	474,599	931,812	883,230	1,100,952	1,193,371
	B	287,936	119,556	579,262	122,246	983,378	253,066	1,162,088	342,151
FP1	DA	1,282	184	4,098	143	1,871	1,011	970	643
	S	1,184	629	3,903	91.1	1,780	2,710	923	9,108
	B	1,610	167	5,040	167	2,227	864	1,200	752
FP3	DA	19.8	20.5	19.3	14.9	8.21	6.58	4.86	4.82
	S	16.4	20.7	16.0	56.1	5.98	6.07	3.86	3.34
	B	22.2	22.7	21.2	15.0	9.68	4.58	4.83	2.77
FP4	DA	60.1	485	77.6	367	97.2	142	197	127
	S	44.3	900	57.0	424	71.0	177	142	116
	B	79.6	1,080	103	462	130	81.5	255	70.1
GT1	DA	165	68.5	35.1	33.1	92.3	36.1	126	78.6
	S	188	256	64.5	20.2	217	44.4	317	71.3
	B	155	44.7	17.4	26.6	50.3	28.0	67.5	35.7
GT2	DA	16.9	13.0	9.32	12.7	11.5	8.70	12.7	6.47
	S	15.7	23.6	8.17	35.1	11.5	7.12	18.2	2.99
	B	18.3	11.8	9.98	5.15	7.47	6.38	10.3	8.99
GT3	DA	198	150	60.6	16.4	12.1	7.60	9.94	6.24
	S	172	49.5	56.8	22.4	10.4	12.3	10.0	8.69
	B	224	112	65.2	15.1	13.2	6.31	10.2	4.91
GT4	DA	102	803	128	164	73.7	29.2	36.0	17.2
	S	85.2	394	107	166	72.9	48.8	35.8	25.7
	B	114	843	144	178	88.0	29.6	39.8	15.4
GT5	DA	111	2,391	140	682	161	251	279	226
	S	96.6	14,398	120	2,662	138	579	242	286
	B	160	1,437	204	405	242	140	415	121
PMP1	DA	30.7	16.7	19.7	23.7	23.2	12.4	31.0	9.32
	S	32.4	36.7	20.6	43.7	36.4	14.4	46.7	5.76
	B	30.0	13.1	18.2	14.7	15.4	9.88	18.7	11.7
SS1	DA	127,369	23,071	164,079	8,943	187,539	3,424	225,955	1,724
	S	135,291	21,142	174,290	5,818	198,910	2,037	240,022	605
	B	124,753	19,775	160,702	8,151	183,782	3,091	221,711	1,810

Note: DA represents depth-averaged, S represents surface layer, B represents bottom layer.
Critical values are highlighted.

Table A3.3.4: Calculated Maximum Allowable SS Release based on TSHD Dilution Test Models (kg/s) (cont'd)

Sensitive Receiver	Depth	Dredging Location A		Dredging Location B		Dredging Location C		Dredging Location D	
		Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet
F1	DA	155	576	204	476	245	743	386	1,181
	S	133	362	174	332	209	517	328	811
	B	200	857	264	424	317	860	498	1,434
F2	DA	17,220	5,720	25,323	3,478	31,328	5,862	45,454	9,163
	S	17,646	7,381	25,971	7,230	32,141	12,597	46,636	19,582
	B	18,538	4,489	27,283	2,605	33,780	4,675	49,004	5,278
F3	DA	266,888	257,080	568,465	212,012	904,223	350,119	1,076,336	450,807
	S	298,032	802,257	634,004	658,615	1,010,428	1,063,721	1,201,125	1,368,270
	B	314,268	221,336	669,470	173,269	1,066,225	303,890	1,268,421	391,338
FP1	DA	1,561	192	5,043	452	2,296	1,099	1,206	951
	S	1,425	648	4,811	471	2,184	7,840	1,148	10,234
	B	1,968	170	6,209	483	2,852	932	1,492	805
FP3	DA	29.1	46.4	22.6	14.1	10.7	7.38	5.38	3.52
	S	24.3	39.3	18.9	86.0	9.17	43.2	9.18	44.1
	B	32.5	45.8	25.1	11.6	10.7	4.13	3.33	1.28
FP4	DA	74.5	1,178	91.7	567	125	340	240	325
	S	54.9	2,074	67.5	766	91.2	467	171	494
	B	98.6	2,929	122	862	167	192	302	163
GT1	DA	181	126	34.4	168	107	539	155	342
	S	207	675	77.9	2,150	259	4,833	337	3,522
	B	169	76.3	17.2	51.4	58.4	187	83.3	153
GT2	DA	18.9	21.4	10.5	14.0	14.8	9.68	12.4	8.90
	S	17.5	59.8	9.29	381	14.1	163	16.6	55.8
	B	20.7	17.5	11.3	4.41	10.4	3.64	8.60	3.52
GT3	DA	250	326	93.6	18.9	14.2	7.98	8.75	5.30
	S	217	122	88.9	34.8	12.3	24.5	9.14	24.0
	B	282	282	101	16.6	15.5	5.72	9.22	2.93
GT4	DA	129	2,130	156	206	93.6	42.7	39.4	15.0
	S	108	1,152	131	217	92.5	124	39.2	116
	B	144	2,376	175	322	111	43.1	43.7	12.5
GT5	DA	138	6,249	167	1,203	202	701	333	673
	S	120	32,256	144	6,647	173	1,692	291	1,776
	B	202	3,779	247	714	303	334	499	309
PMP1	DA	35.0	28.1	21.5	40.1	32.7	33.0	31.6	18.4
	S	36.8	90.7	22.5	427	41.1	230	48.3	86.1
	B	34.1	19.9	20.4	19.0	22.6	15.1	19.1	10.3
SS1	DA	165,937	53,443	207,584	14,318	239,126	7,831	262,430	6,771
	S	176,274	55,117	220,507	7,483	253,630	4,040	278,796	3,591
	B	162,537	46,396	203,309	10,984	234,326	7,130	257,484	6,087

Note: DA represents depth-averaged, S represents surface layer, B represents bottom layer.
Critical values are highlighted.