



BARGE "HSM 4103"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 5'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 16, 2024

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 4103"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	207,018	0	192,099	0	177,131	0	162,126	0	147,115	0	132,103	0	117,092	0	102,078
1/4		1/4		1/4	206,708	1/4	191,787	1/4	176,820	1/4	161,813	1/4	146,802	1/4	131,790	1/4	116,779	1/4	101,765
1/2		1/2		1/2	206,399	1/2	191,475	1/2	176,508	1/2	161,501	1/2	146,489	1/2	131,478	1/2	116,466	1/2	101,452
3/4		3/4		3/4	206,090	3/4	191,164	3/4	176,196	3/4	161,188	3/4	146,176	3/4	131,165	3/4	116,153	3/4	101,139
1		1		1	205,780	1	190,852	1	175,884	1	160,875	1	145,864	1	130,852	1	115,841	1	100,826
1/4		1/4		1/4	205,470	1/4	190,540	1/4	175,572	1/4	160,562	1/4	145,551	1/4	130,539	1/4	115,528	1/4	100,513
1/2		1/2		1/2	205,161	1/2	190,228	1/2	175,260	1/2	160,250	1/2	145,238	1/2	130,227	1/2	115,215	1/2	100,200
3/4		3/4		3/4	204,851	3/4	189,916	3/4	174,948	3/4	159,937	3/4	144,925	3/4	129,914	3/4	114,902	3/4	99,888
2		2		2	204,541	2	189,604	2	174,635	2	159,624	2	144,613	2	129,601	2	114,590	2	99,575
1/4		1/4		1/4	204,231	1/4	189,293	1/4	174,323	1/4	159,312	1/4	144,300	1/4	129,288	1/4	114,277	1/4	99,262
1/2		1/2		1/2	203,921	1/2	188,981	1/2	174,010	1/2	158,999	1/2	143,987	1/2	128,976	1/2	113,964	1/2	98,949
3/4		3/4		3/4	203,612	3/4	188,669	3/4	173,698	3/4	158,686	3/4	143,674	3/4	128,663	3/4	113,651	3/4	98,636
3		3		3	203,302	3	188,357	3	173,385	3	158,373	3	143,362	3	128,350	3	113,339	3	98,323
1/4		1/4		1/4	202,992	1/4	188,045	1/4	173,072	1/4	158,061	1/4	143,049	1/4	128,037	1/4	113,026	1/4	98,010
1/2		1/2		1/2	202,682	1/2	187,733	1/2	172,759	1/2	157,748	1/2	142,736	1/2	127,725	1/2	112,713	1/2	97,697
3/4		3/4		3/4	202,372	3/4	187,422	3/4	172,447	3/4	157,435	3/4	142,424	3/4	127,412	3/4	112,400	3/4	97,385
4		4		4	202,063	4	187,110	4	172,134	4	157,122	4	142,111	4	127,099	4	112,088	4	97,072
1/4		1/4		1/4	201,753	1/4	186,798	1/4	171,821	1/4	156,810	1/4	141,798	1/4	126,786	1/4	111,775	1/4	96,759
1/2		1/2		1/2	201,443	1/2	186,486	1/2	171,508	1/2	156,497	1/2	141,485	1/2	126,474	1/2	111,462	1/2	96,446
3/4		3/4		3/4	201,134	3/4	186,174	3/4	171,196	3/4	156,184	3/4	141,173	3/4	126,161	3/4	111,149	3/4	96,133
5		5		5	200,824	5	185,863	5	170,883	5	155,871	5	140,860	5	125,848	5	110,837	5	95,820
1/4		1/4		1/4	200,514	1/4	185,551	1/4	170,570	1/4	155,559	1/4	140,547	1/4	125,536	1/4	110,524	1/4	95,507
1/2		1/2		1/2	200,204	1/2	185,239	1/2	170,257	1/2	155,246	1/2	140,234	1/2	125,223	1/2	110,211	1/2	95,194
3/4		3/4		3/4	199,893	3/4	184,927	3/4	169,945	3/4	154,933	3/4	139,922	3/4	124,910	3/4	109,898	3/4	94,882
6		6		6	199,582	6	184,615	6	169,632	6	154,620	6	139,609	6	124,597	6	109,586	6	94,569
1/4		1/4		1/4	199,271	1/4	184,303	1/4	169,319	1/4	154,308	1/4	139,296	1/4	124,285	1/4	109,273	1/4	94,256
1/2		1/2		1/2	198,959	1/2	183,992	1/2	169,006	1/2	153,995	1/2	138,983	1/2	123,972	1/2	108,960	1/2	93,943
3/4		3/4		3/4	198,647	3/4	183,680	3/4	168,694	3/4	153,682	3/4	138,671	3/4	123,659	3/4	108,648	3/4	93,630
7		7		7	198,336	7	183,368	7	168,381	7	153,369	7	138,358	7	123,346	7	108,335	7	93,317
1/4		1/4		1/4	198,024	1/4	183,056	1/4	168,068	1/4	153,057	1/4	138,045	1/4	123,034	1/4	108,022	1/4	93,004
1/2		1/2		1/2	211,467	1/2	197,712	1/2	182,744	1/2	167,756	1/2	152,744	1/2	137,732	1/2	122,721	1/2	107,709
3/4		3/4		3/4	211,301	3/4	197,400	3/4	182,432	3/4	167,443	3/4	152,431	3/4	137,420	3/4	122,408	3/4	107,396
8		8		8	211,134	8	197,088	8	182,121	8	167,130	8	152,118	8	137,107	8	122,095	8	107,084
1/4		1/4		1/4	210,968	1/4	196,776	1/4	181,809	1/4	166,817	1/4	151,806	1/4	136,794	1/4	121,783	1/4	106,771
1/2		1/2		1/2	210,801	1/2	196,465	1/2	181,497	1/2	166,505	1/2	151,493	1/2	136,481	1/2	121,470	1/2	106,458
3/4		3/4		3/4	210,583	3/4	196,153	3/4	181,185	3/4	166,192	3/4	151,180	3/4	136,169	3/4	121,157	3/4	106,145
9		9		9	210,364	9	195,841	9	180,873	9	165,879	9	150,868	9	135,856	9	120,844	9	105,832
1/4		1/4		1/4	210,146	1/4	195,529	1/4	180,561	1/4	165,566	1/4	150,555	1/4	135,543	1/4	120,532	1/4	105,519
1/2		1/2		1/2	209,927	1/2	195,217	1/2	180,250	1/2	165,254	1/2	150,242	1/2	135,230	1/2	120,219	1/2	105,206
3/4		3/4		3/4	209,657	3/4	194,906	3/4	179,938	3/4	164,941	3/4	149,929	3/4	134,918	3/4	119,906	3/4	104,894
10		10		10	209,386	10	194,594	10	179,626	10	164,628	10	149,617	10	134,605	10	119,593	10	104,581
1/4		1/4		1/4	209,115	1/4	194,282	1/4	179,314	1/4	164,315	1/4	149,304	1/4	134,292	1/4	119,281	1/4	104,268
1/2		1/2		1/2	208,845	1/2	193,970	1/2	179,002	1/2	164,003	1/2	148,991	1/2	133,980	1/2	118,968	1/2	103,955
3/4		3/4		3/4	208,542	3/4	193,658	3/4	178,690	3/4	163,690	3/4	148,678	3/4	133,667	3/4	118,655	3/4	103,642
11		11		11	208,240	11	193,346	11	178,379	11	163,377	11	148,366	11	133,354	11	118,342	11	103,329
1/4		1/4		1/4	207,938	1/4	193,035	1/4	178,067	1/4	163,064	1/4	148,053	1/4	133,041	1/4	118,030	1/4	103,016
1/2		1/2		1/2	207,636	1/2	192,723	1/2	177,755	1/2	162,752	1/2	147,740	1/2	132,729	1/2	117,717	1/2	102,703
3/4		3/4		3/4	207,327	3/4	192,411	3/4	177,443	3/4	162,439	3/4	147,427	3/4	132,416	3/4	117,404	3/4	102,391

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HSM 4103"

1 PORT ULLAGE TABLE

..... GALLONS

GAUGE HEIGHT 15'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	87,060	0	72,042	0	57,073	0	42,110	0	27,093	0	12,279	0		0		0		0	
1/4	86,747	1/4	71,729	1/4	56,763	1/4	41,797	1/4	26,780	1/4	11,986	1/4		1/4		1/4		1/4	
1/2	86,434	1/2	71,416	1/2	56,452	1/2	41,485	1/2	26,467	1/2	11,692	1/2		1/2		1/2		1/2	
3/4	86,121	3/4	71,103	3/4	56,142	3/4	41,172	3/4	26,154	3/4	11,402	3/4		3/4		3/4		3/4	
1	85,808	1	70,790	1	55,831	1	40,859	1	25,841	1	11,112	1		1		1		1	
1/4	85,495	1/4	70,477	1/4	55,521	1/4	40,546	1/4	25,528	1/4	10,822	1/4		1/4		1/4		1/4	
1/2	85,182	1/2	70,164	1/2	55,210	1/2	40,233	1/2	25,216	1/2	10,532	1/2		1/2		1/2		1/2	
3/4	84,869	3/4	69,851	3/4	54,900	3/4	39,920	3/4	24,903	3/4	10,245	3/4		3/4		3/4		3/4	
2	84,557	2	69,539	2	54,589	2	39,607	2	24,590	2	9,959	2		2		2		2	
1/4	84,244	1/4	69,226	1/4	54,279	1/4	39,295	1/4	24,277	1/4	9,672	1/4		1/4		1/4		1/4	
1/2	83,931	1/2	68,913	1/2	53,968	1/2	38,982	1/2	23,964	1/2	9,386	1/2		1/2		1/2		1/2	
3/4	83,618	3/4	68,600	3/4	53,658	3/4	38,669	3/4	23,651	3/4	9,103	3/4		3/4		3/4		3/4	
3	83,305	3	68,287	3	53,347	3	38,356	3	23,338	3	8,820	3		3		3		3	
1/4	82,992	1/4	67,974	1/4	53,037	1/4	38,043	1/4	23,025	1/4	8,538	1/4		1/4		1/4		1/4	
1/2	82,679	1/2	67,661	1/2	52,726	1/2	37,730	1/2	22,713	1/2	8,255	1/2		1/2		1/2		1/2	
3/4	82,366	3/4	67,348	3/4	52,415	3/4	37,417	3/4	22,400	3/4	7,976	3/4		3/4		3/4		3/4	
4	82,054	4	67,036	4	52,105	4	37,104	4	22,087	4	7,696	4		4		4		4	
1/4	81,741	1/4	66,723	1/4	51,794	1/4	36,792	1/4	21,774	1/4	7,417	1/4		1/4		1/4		1/4	
1/2	81,428	1/2	66,410	1/2	51,483	1/2	36,479	1/2	21,461	1/2	7,138	1/2		1/2		1/2		1/2	
3/4	81,115	3/4	66,097	3/4	51,172	3/4	36,166	3/4	21,148	3/4	6,863	3/4		3/4		3/4		3/4	
5	80,802	5	65,784	5	50,860	5	35,853	5	20,835	5	6,587	5		5		5		5	
1/4	80,489	1/4	65,471	1/4	50,549	1/4	35,540	1/4	20,523	1/4	6,312	1/4		1/4		1/4		1/4	
1/2	80,176	1/2	65,158	1/2	50,238	1/2	35,227	1/2	20,210	1/2	6,036	1/2		1/2		1/2		1/2	
3/4	79,863	3/4	64,846	3/4	49,926	3/4	34,914	3/4	19,897	3/4	5,764	3/4		3/4		3/4		3/4	
6	79,551	6	64,533	6	49,615	6	34,602	6	19,584	6	5,493	6		6		6		6	
1/4	79,238	1/4	64,220	1/4	49,303	1/4	34,289	1/4	19,271	1/4	5,221	1/4		1/4		1/4		1/4	
1/2	78,925	1/2	63,908	1/2	48,992	1/2	33,976	1/2	18,958	1/2	4,949	1/2		1/2		1/2		1/2	
3/4	78,612	3/4	63,597	3/4	48,679	3/4	33,663	3/4	18,647	3/4	4,681	3/4		3/4		3/4		3/4	
7	78,299	7	63,286	7	48,367	7	33,350	7	18,335	7	4,413	7		7		7		7	
1/4	77,986	1/4	62,974	1/4	48,054	1/4	33,037	1/4	18,024	1/4	4,144	1/4		1/4		1/4		1/4	
1/2	77,673	1/2	62,663	1/2	47,742	1/2	32,724	1/2	17,712	1/2	3,876	1/2		1/2		1/2		1/2	
3/4	77,360	3/4	62,353	3/4	47,429	3/4	32,411	3/4	17,404	3/4	3,612	3/4		3/4		3/4		3/4	
8	77,048	8	62,042	8	47,116	8	32,099	8	17,096	8	3,348	8		8		8		8	
1/4	76,735	1/4	61,731	1/4	46,803	1/4	31,786	1/4	16,787	1/4	3,084	1/4		1/4		1/4		1/4	
1/2	76,422	1/2	61,421	1/2	46,490	1/2	31,473	1/2	16,479	1/2	2,819	1/2		1/2		1/2		1/2	
3/4	76,109	3/4	61,110	3/4	46,178	3/4	31,160	3/4	16,174	3/4	2,560	3/4		3/4		3/4		3/4	
9	75,796	9	60,800	9	45,865	9	30,847	9	15,870	9	2,300	9		9		9		9	
1/4	75,483	1/4	60,489	1/4	45,552	1/4	30,534	1/4	15,565	1/4	2,040	1/4		1/4		1/4		1/4	
1/2	75,170	1/2	60,178	1/2	45,239	1/2	30,221	1/2	15,260	1/2	1,781	1/2		1/2		1/2		1/2	
3/4	74,857	3/4	59,868	3/4	44,926	3/4	29,909	3/4	14,959	3/4	1,553	3/4		3/4		3/4		3/4	
10	74,545	10	59,557	10	44,613	10	29,596	10	14,658	10	1,326	10		10		10		10	
1/4	74,232	1/4	59,247	1/4	44,300	1/4	29,283	1/4	14,357	1/4	1,098	1/4		1/4		1/4		1/4	
1/2	73,919	1/2	58,936	1/2	43,988	1/2	28,970	1/2	14,056	1/2	871	1/2		1/2		1/2		1/2	
3/4	73,606	3/4	58,626	3/4	43,675	3/4	28,657	3/4	13,759	3/4	715	3/4		3/4		3/4		3/4	
11	73,293	11	58,315	11	43,362	11	28,344	11	13,462	11	559	11		11		11		11	
1/4	72,980	1/4	58,005	1/4	43,049	1/4	28,031	1/4	13,164	1/4	403	1/4		1/4		1/4		1/4	
1/2	72,667	1/2	57,694	1/2	42,736	1/2	27,718	1/2	12,867	1/2	248	1/2		1/2		1/2		1/2	
3/4	72,354	3/4	57,384	3/4	42,423	3/4	27,406	3/4	12,573	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/15/2024 CL
CALCULATED: 10/16/2024 CL
PRINTED: 10/16/2024 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "HSM 4103"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	206,939	0	192,008	0	177,031	0	162,015	0	146,994	0	131,973	0	116,952	0	101,928
1/4		1/4		1/4	206,630	1/4	191,696	1/4	176,719	1/4	161,702	1/4	146,681	1/4	131,660	1/4	116,639	1/4	101,615
1/2		1/2		1/2	206,320	1/2	191,384	1/2	176,407	1/2	161,389	1/2	146,368	1/2	131,347	1/2	116,326	1/2	101,302
3/4		3/4		3/4	206,010	3/4	191,072	3/4	176,095	3/4	161,076	3/4	146,055	3/4	131,034	3/4	116,013	3/4	100,989
1		1		1	205,700	1	190,760	1	175,783	1	160,763	1	145,742	1	130,721	1	115,700	1	100,676
1/4		1/4		1/4	205,390	1/4	190,448	1/4	175,470	1/4	160,450	1/4	145,429	1/4	130,408	1/4	115,387	1/4	100,363
1/2		1/2		1/2	205,080	1/2	190,136	1/2	175,158	1/2	160,137	1/2	145,116	1/2	130,095	1/2	115,074	1/2	100,050
3/4		3/4		3/4	204,770	3/4	189,824	3/4	174,845	3/4	159,824	3/4	144,803	3/4	129,782	3/4	114,761	3/4	99,737
2		2		2	204,460	2	189,512	2	174,532	2	159,511	2	144,490	2	129,469	2	114,448	2	99,424
1/4		1/4		1/4	204,150	1/4	189,200	1/4	174,220	1/4	159,198	1/4	144,177	1/4	129,156	1/4	114,135	1/4	99,110
1/2		1/2		1/2	203,840	1/2	188,888	1/2	173,907	1/2	158,885	1/2	143,864	1/2	128,843	1/2	113,822	1/2	98,797
3/4		3/4		3/4	203,530	3/4	188,576	3/4	173,594	3/4	158,573	3/4	143,551	3/4	128,530	3/4	113,509	3/4	98,484
3		3		3	203,220	3	188,264	3	173,281	3	158,260	3	143,238	3	128,217	3	113,196	3	98,171
1/4		1/4		1/4	202,910	1/4	187,952	1/4	172,968	1/4	157,947	1/4	142,925	1/4	127,904	1/4	112,883	1/4	97,858
1/2		1/2		1/2	202,600	1/2	187,640	1/2	172,655	1/2	157,634	1/2	142,612	1/2	127,591	1/2	112,570	1/2	97,545
3/4		3/4		3/4	202,290	3/4	187,328	3/4	172,342	3/4	157,321	3/4	142,300	3/4	127,278	3/4	112,257	3/4	97,232
4		4		4	201,980	4	187,016	4	172,029	4	157,008	4	141,987	4	126,966	4	111,945	4	96,919
1/4		1/4		1/4	201,670	1/4	186,704	1/4	171,716	1/4	156,695	1/4	141,674	1/4	126,653	1/4	111,632	1/4	96,606
1/2		1/2		1/2	201,360	1/2	186,392	1/2	171,403	1/2	156,382	1/2	141,361	1/2	126,340	1/2	111,319	1/2	96,293
3/4		3/4		3/4	201,051	3/4	186,079	3/4	171,090	3/4	156,069	3/4	141,048	3/4	126,027	3/4	111,006	3/4	95,980
5		5		5	200,741	5	185,767	5	170,777	5	155,756	5	140,735	5	125,714	5	110,693	5	95,667
1/4		1/4		1/4	200,431	1/4	185,455	1/4	170,464	1/4	155,443	1/4	140,422	1/4	125,401	1/4	110,380	1/4	95,354
1/2		1/2		1/2	200,119	1/2	185,143	1/2	170,151	1/2	155,130	1/2	140,109	1/2	125,088	1/2	110,067	1/2	95,041
3/4		3/4		3/4	199,808	3/4	184,831	3/4	169,838	3/4	154,817	3/4	139,796	3/4	124,775	3/4	109,754	3/4	94,727
6		6		6	199,496	6	184,519	6	169,526	6	154,504	6	139,483	6	124,462	6	109,441	6	94,414
1/4		1/4		1/4	199,185	1/4	184,207	1/4	169,213	1/4	154,191	1/4	139,170	1/4	124,149	1/4	109,128	1/4	94,101
1/2		1/2		1/2	198,873	1/2	183,895	1/2	168,900	1/2	153,878	1/2	138,857	1/2	123,836	1/2	108,815	1/2	93,788
3/4		3/4		3/4	198,561	3/4	183,583	3/4	168,587	3/4	153,565	3/4	138,544	3/4	123,523	3/4	108,502	3/4	93,475
7		7		7	198,249	7	183,271	7	168,274	7	153,253	7	138,231	7	123,210	7	108,189	7	93,162
1/4		1/4		1/4	211,701	1/4	197,937	1/4	182,959	1/4	167,961	1/4	152,940	1/4	137,918	1/4	122,897	1/4	92,849
1/2		1/2		1/2	211,534	1/2	197,625	1/2	182,647	1/2	167,648	1/2	152,627	1/2	137,605	1/2	122,584	1/2	92,536
3/4		3/4		3/4	211,368	3/4	197,313	3/4	182,335	3/4	167,335	3/4	152,314	3/4	137,292	3/4	122,271	3/4	92,223
8		8		8	211,201	8	197,001	8	182,023	8	167,022	8	152,001	8	136,980	8	121,959	8	91,910
1/4		1/4		1/4	211,035	1/4	196,689	1/4	181,711	1/4	166,709	1/4	151,688	1/4	136,667	1/4	121,646	1/4	91,597
1/2		1/2		1/2	210,816	1/2	196,376	1/2	181,399	1/2	166,396	1/2	151,375	1/2	136,354	1/2	121,333	1/2	91,284
3/4		3/4		3/4	210,597	3/4	196,064	3/4	181,087	3/4	166,083	3/4	151,062	3/4	136,041	3/4	121,020	3/4	90,971
9		9		9	210,378	9	195,752	9	180,775	9	165,770	9	150,749	9	135,728	9	120,707	9	90,658
1/4		1/4		1/4	210,160	1/4	195,440	1/4	180,463	1/4	165,457	1/4	150,436	1/4	135,415	1/4	120,394	1/4	90,344
1/2		1/2		1/2	209,889	1/2	195,128	1/2	180,151	1/2	165,144	1/2	150,123	1/2	135,102	1/2	120,081	1/2	90,031
3/4		3/4		3/4	209,618	3/4	194,816	3/4	179,839	3/4	164,831	3/4	149,810	3/4	134,789	3/4	119,768	3/4	89,718
10		10		10	209,347	10	194,504	10	179,527	10	164,518	10	149,497	10	134,476	10	119,455	10	89,405
1/4		1/4		1/4	209,076	1/4	194,192	1/4	179,215	1/4	164,205	1/4	149,184	1/4	134,163	1/4	119,142	1/4	89,092
1/2		1/2		1/2	208,774	1/2	193,880	1/2	178,903	1/2	163,893	1/2	148,871	1/2	133,850	1/2	118,829	1/2	88,779
3/4		3/4		3/4	208,472	3/4	193,568	3/4	178,591	3/4	163,580	3/4	148,558	3/4	133,537	3/4	118,516	3/4	88,466
11		11		11	208,169	11	193,256	11	178,279	11	163,267	11	148,245	11	133,224	11	118,203	11	88,153
1/4		1/4		1/4	207,867	1/4	192,944	1/4	177,967	1/4	162,954	1/4	147,932	1/4	132,911	1/4	117,890	1/4	87,840
1/2		1/2		1/2	207,558	1/2	192,632	1/2	177,655	1/2	162,641	1/2	147,620	1/2	132,598	1/2	117,577	1/2	87,527
3/4		3/4		3/4	207,248	3/4	192,320	3/4	177,343	3/4	162,328	3/4	147,307	3/4	132,285	3/4	117,264	3/4	87,214

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 4103"

1 STBD ULLAGE TABLE

..... GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	86,901	0	71,873	0	56,849	0	41,826	0	26,799	0	11,995	0		0		0		0	
1/4	86,588	1/4	71,560	1/4	56,537	1/4	41,513	1/4	26,486	1/4	11,701	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,275	1/2	71,247	1/2	56,224	1/2	41,200	1/2	26,173	1/2	11,411	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,961	3/4	70,934	3/4	55,911	3/4	40,887	3/4	25,860	3/4	11,121	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	85,648	1	70,621	1	55,598	1	40,574	1	25,547	1	10,830	1	1	1	1	1	1	1	1
1/4	85,335	1/4	70,308	1/4	55,285	1/4	40,261	1/4	25,234	1/4	10,540	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,022	1/2	69,995	1/2	54,972	1/2	39,948	1/2	24,921	1/2	10,254	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,709	3/4	69,682	3/4	54,660	3/4	39,634	3/4	24,607	3/4	9,967	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	84,396	2	69,369	2	54,347	2	39,321	2	24,294	2	9,680	2	2	2	2	2	2	2	2
1/4	84,083	1/4	69,056	1/4	54,034	1/4	39,008	1/4	23,981	1/4	9,394	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,770	1/2	68,742	1/2	53,721	1/2	38,695	1/2	23,668	1/2	9,111	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,457	3/4	68,429	3/4	53,408	3/4	38,382	3/4	23,355	3/4	8,828	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	83,144	3	68,116	3	53,095	3	38,069	3	23,042	3	8,545	3	3	3	3	3	3	3	3
1/4	82,831	1/4	67,803	1/4	52,782	1/4	37,756	1/4	22,729	1/4	8,262	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,518	1/2	67,490	1/2	52,470	1/2	37,443	1/2	22,416	1/2	7,982	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,205	3/4	67,177	3/4	52,157	3/4	37,130	3/4	22,103	3/4	7,703	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	81,892	4	66,864	4	51,844	4	36,817	4	21,790	4	7,424	4	4	4	4	4	4	4	4
1/4	81,578	1/4	66,551	1/4	51,531	1/4	36,504	1/4	21,477	1/4	7,144	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,265	1/2	66,238	1/2	51,218	1/2	36,191	1/2	21,164	1/2	6,869	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,952	3/4	65,925	3/4	50,905	3/4	35,878	3/4	20,851	3/4	6,593	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	80,639	5	65,612	5	50,592	5	35,565	5	20,538	5	6,317	5	5	5	5	5	5	5	5
1/4	80,326	1/4	65,299	1/4	50,279	1/4	35,252	1/4	20,225	1/4	6,042	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,013	1/2	64,986	1/2	49,966	1/2	34,939	1/2	19,912	1/2	5,770	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,700	3/4	64,673	3/4	49,652	3/4	34,625	3/4	19,598	3/4	5,497	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	79,387	6	64,359	6	49,339	6	34,312	6	19,285	6	5,225	6	6	6	6	6	6	6	6
1/4	79,074	1/4	64,046	1/4	49,026	1/4	33,999	1/4	18,972	1/4	4,953	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,761	1/2	63,733	1/2	48,713	1/2	33,686	1/2	18,661	1/2	4,685	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,448	3/4	63,420	3/4	48,400	3/4	33,373	3/4	18,349	3/4	4,417	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	78,135	7	63,107	7	48,087	7	33,060	7	18,037	7	4,148	7	7	7	7	7	7	7	7
1/4	77,822	1/4	62,794	1/4	47,774	1/4	32,747	1/4	17,726	1/4	3,880	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,508	1/2	62,481	1/2	47,461	1/2	32,434	1/2	17,417	1/2	3,616	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,195	3/4	62,168	3/4	47,148	3/4	32,121	3/4	17,109	3/4	3,351	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	76,882	8	61,855	8	46,835	8	31,808	8	16,800	8	3,087	8	8	8	8	8	8	8	8
1/4	76,569	1/4	61,542	1/4	46,522	1/4	31,495	1/4	16,492	1/4	2,822	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,256	1/2	61,229	1/2	46,209	1/2	31,182	1/2	16,187	1/2	2,562	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,943	3/4	60,916	3/4	45,896	3/4	30,869	3/4	15,882	3/4	2,303	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	75,630	9	60,604	9	45,583	9	30,556	9	15,577	9	2,043	9	9	9	9	9	9	9	9
1/4	75,317	1/4	60,291	1/4	45,270	1/4	30,243	1/4	15,272	1/4	1,783	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,004	1/2	59,978	1/2	44,957	1/2	29,930	1/2	14,971	1/2	1,555	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,691	3/4	59,665	3/4	44,643	3/4	29,616	3/4	14,670	3/4	1,328	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	74,378	10	59,352	10	44,330	10	29,303	10	14,368	10	1,100	10	10	10	10	10	10	10	10
1/4	74,065	1/4	59,039	1/4	44,017	1/4	28,990	1/4	14,067	1/4	872	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,752	1/2	58,726	1/2	43,704	1/2	28,677	1/2	13,770	1/2	716	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,439	3/4	58,414	3/4	43,391	3/4	28,364	3/4	13,472	3/4	560	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	73,125	11	58,101	11	43,078	11	28,051	11	13,175	11	404	11	11	11	11	11	11	11	11
1/4	72,812	1/4	57,788	1/4	42,765	1/4	27,738	1/4	12,877	1/4	248	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,499	1/2	57,475	1/2	42,452	1/2	27,425	1/2	12,583	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,186	3/4	57,162	3/4	42,139	3/4	27,112	3/4	12,289	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/15/2024 CL
CALCULATED: 10/16/2024 CL
PRINTED: 10/16/2024 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "HSM 4103"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0	209,486	0	194,570	0	179,583	0	164,553	0	149,515	0	134,477	0	119,440	0	104,399		
1/4		1/4		1/4	209,177	1/4	194,258	1/4	179,271	1/4	164,240	1/4	149,202	1/4	134,164	1/4	119,126	1/4	104,086		
1/2		1/2		1/2	208,869	1/2	193,946	1/2	178,959	1/2	163,926	1/2	148,889	1/2	133,851	1/2	118,813	1/2	103,772		
3/4		3/4		3/4	208,560	3/4	193,633	3/4	178,647	3/4	163,613	3/4	148,575	3/4	133,538	3/4	118,500	3/4	103,459		
1		1		1	208,250	1	193,321	1	178,334	1	163,300	1	148,262	1	133,224	1	118,186	1	103,145		
1/4		1/4		1/4	207,941	1/4	193,009	1/4	178,022	1/4	162,987	1/4	147,949	1/4	132,911	1/4	117,873	1/4	102,832		
1/2		1/2		1/2	207,632	1/2	192,697	1/2	177,710	1/2	162,673	1/2	147,635	1/2	132,598	1/2	117,560	1/2	102,518		
3/4		3/4		3/4	207,323	3/4	192,384	3/4	177,397	3/4	162,360	3/4	147,322	3/4	132,284	3/4	117,247	3/4	102,205		
2		2		2	207,014	2	192,072	2	177,084	2	162,047	2	147,009	2	131,971	2	116,933	2	101,892		
1/4		1/4		1/4	206,704	1/4	191,760	1/4	176,771	1/4	161,733	1/4	146,696	1/4	131,658	1/4	116,620	1/4	101,578		
1/2		1/2		1/2	206,395	1/2	191,448	1/2	176,458	1/2	161,420	1/2	146,382	1/2	131,345	1/2	116,307	1/2	101,265		
3/4		3/4		3/4	206,086	3/4	191,136	3/4	176,145	3/4	161,107	3/4	146,069	3/4	131,031	3/4	115,993	3/4	100,951		
3		3		3	205,777	3	190,823	3	175,831	3	160,794	3	145,756	3	130,718	3	115,680	3	100,638		
1/4		1/4		1/4	205,467	1/4	190,511	1/4	175,518	1/4	160,480	1/4	145,442	1/4	130,405	1/4	115,367	1/4	100,324		
1/2		1/2		1/2	205,158	1/2	190,199	1/2	175,205	1/2	160,167	1/2	145,129	1/2	130,091	1/2	115,054	1/2	100,011		
3/4		3/4		3/4	204,849	3/4	189,887	3/4	174,891	3/4	159,854	3/4	144,816	3/4	129,778	3/4	114,740	3/4	99,697		
4		4		4	204,540	4	189,574	4	174,578	4	159,540	4	144,503	4	129,465	4	114,427	4	99,384		
1/4		1/4		1/4	204,230	1/4	189,262	1/4	174,265	1/4	159,227	1/4	144,189	1/4	129,151	1/4	114,114	1/4	99,071		
1/2		1/2		1/2	203,921	1/2	188,950	1/2	173,952	1/2	158,914	1/2	143,876	1/2	128,838	1/2	113,800	1/2	98,757		
3/4		3/4		3/4	203,612	3/4	188,638	3/4	173,638	3/4	158,600	3/4	143,563	3/4	128,525	3/4	113,487	3/4	98,444		
5		5		5	203,303	5	188,326	5	173,325	5	158,287	5	143,249	5	128,212	5	113,174	5	98,130		
1/4		1/4		1/4	202,994	1/4	188,013	1/4	173,012	1/4	157,974	1/4	142,936	1/4	127,898	1/4	112,861	1/4	97,817		
1/2		1/2		1/2	202,685	1/2	187,701	1/2	172,698	1/2	157,661	1/2	142,623	1/2	127,585	1/2	112,547	1/2	97,503		
3/4		3/4		3/4	202,373	3/4	187,389	3/4	172,385	3/4	157,347	3/4	142,310	3/4	127,272	3/4	112,234	3/4	97,190		
6		6		6	202,062	6	187,077	6	172,072	6	157,034	6	141,996	6	126,958	6	111,921	6	96,876		
1/4		1/4		1/4	201,750	1/4	186,764	1/4	171,759	1/4	156,721	1/4	141,683	1/4	126,645	1/4	111,607	1/4	96,563		
1/2		1/2		1/2	201,439	1/2	186,452	1/2	171,445	1/2	156,407	1/2	141,370	1/2	126,332	1/2	111,294	1/2	96,250		
3/4		3/4		3/4	201,127	3/4	186,140	3/4	171,132	3/4	156,094	3/4	141,056	3/4	126,019	3/4	110,981	3/4	95,936		
7		7		7	200,814	7	185,828	7	170,819	7	155,781	7	140,743	7	125,705	7	110,668	7	95,623		
1/4		1/4		1/4	200,502	1/4	185,516	1/4	170,505	1/4	155,468	1/4	140,430	1/4	125,392	1/4	110,354	1/4	95,309		
1/2		1/2		1/2	213,924	1/2	200,190	1/2	185,203	1/2	170,192	1/2	155,154	1/2	140,117	1/2	125,079	1/2	110,041	1/2	94,996
3/4		3/4		3/4	213,758	3/4	199,878	3/4	184,891	3/4	169,879	3/4	154,841	3/4	139,803	3/4	124,765	3/4	109,728	3/4	94,682
8		8		8	213,592	8	199,566	8	184,579	8	169,566	8	154,528	8	139,490	8	124,452	8	109,414	8	94,369
1/4		1/4		1/4	213,427	1/4	199,253	1/4	184,267	1/4	169,252	1/4	154,214	1/4	139,177	1/4	124,139	1/4	109,101	1/4	94,055
1/2		1/2		1/2	213,261	1/2	198,941	1/2	183,954	1/2	168,939	1/2	153,901	1/2	138,863	1/2	123,826	1/2	108,787	1/2	93,742
3/4		3/4		3/4	213,043	3/4	198,629	3/4	183,642	3/4	168,626	3/4	153,588	3/4	138,550	3/4	123,512	3/4	108,474	3/4	93,429
9		9		9	212,825	9	198,317	9	183,330	9	168,312	9	153,275	9	138,237	9	123,199	9	108,160	9	93,115
1/4		1/4		1/4	212,608	1/4	198,004	1/4	183,018	1/4	167,999	1/4	152,961	1/4	137,924	1/4	122,886	1/4	107,847	1/4	92,802
1/2		1/2		1/2	212,390	1/2	197,692	1/2	182,706	1/2	167,686	1/2	152,648	1/2	137,610	1/2	122,572	1/2	107,534	1/2	92,488
3/4		3/4		3/4	212,120	3/4	197,380	3/4	182,393	3/4	167,373	3/4	152,335	3/4	137,297	3/4	122,259	3/4	107,220	3/4	92,175
10		10		10	211,850	10	197,068	10	182,081	10	167,059	10	152,021	10	136,984	10	121,946	10	106,907	10	91,861
1/4		1/4		1/4	211,580	1/4	196,756	1/4	181,769	1/4	166,746	1/4	151,708	1/4	136,670	1/4	121,633	1/4	106,593	1/4	91,548
1/2		1/2		1/2	211,310	1/2	196,443	1/2	181,457	1/2	166,433	1/2	151,395	1/2	136,357	1/2	121,319	1/2	106,280	1/2	91,234
3/4		3/4		3/4	211,008	3/4	196,131	3/4	181,144	3/4	166,119	3/4	151,082	3/4	136,044	3/4	121,006	3/4	105,966	3/4	90,921
11		11		11	210,706	11	195,819	11	180,832	11	165,806	11	150,768	11	135,731	11	120,693	11	105,653	11	90,608
1/4		1/4		1/4	210,405	1/4	195,507	1/4	180,520	1/4	165,493	1/4	150,455	1/4	135,417	1/4	120,379	1/4	105,339	1/4	90,294
1/2		1/2		1/2	210,103	1/2	195,194	1/2	180,208	1/2	165,180	1/2	150,142	1/2	135,104	1/2	120,066	1/2	105,026	1/2	89,981
3/4		3/4		3/4	209,794	3/4	194,882	3/4	179,896	3/4	164,866	3/4	149,828	3/4	134,791	3/4	119,753	3/4	104,713	3/4	89,667

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 4103"

2 PORT ULLAGE TABLE

..... GALLONS

GAUGE HEIGHT 15'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	89,354	0	74,308	0	59,263	0	44,530	0	29,777	0	14,735	0		0		0		0	
1/4	89,040	1/4	73,995	1/4	58,950	1/4	44,228	1/4	29,464	1/4	14,421	1/4		1/4		1/4		1/4	
1/2	88,727	1/2	73,682	1/2	58,636	1/2	43,925	1/2	29,151	1/2	14,108	1/2		1/2		1/2		1/2	
3/4	88,413	3/4	73,368	3/4	58,323	3/4	43,623	3/4	28,838	3/4	13,794	3/4		3/4		3/4		3/4	
1	88,100	1	73,055	1	58,009	1	43,321	1	28,524	1	13,481	1		1		1		1	
1/4	87,787	1/4	72,741	1/4	57,696	1/4	43,018	1/4	28,211	1/4	13,167	1/4		1/4		1/4		1/4	
1/2	87,473	1/2	72,428	1/2	57,382	1/2	42,716	1/2	27,898	1/2	12,854	1/2		1/2		1/2		1/2	
3/4	87,160	3/4	72,114	3/4	57,069	3/4	42,414	3/4	27,585	3/4	12,541	3/4		3/4		3/4		3/4	
2	86,846	2	71,801	2	56,756	2	42,111	2	27,272	2	12,227	2		2		2		2	
1/4	86,533	1/4	71,487	1/4	56,442	1/4	41,809	1/4	26,958	1/4	11,914	1/4		1/4		1/4		1/4	
1/2	86,219	1/2	71,174	1/2	56,129	1/2	41,507	1/2	26,645	1/2	11,600	1/2		1/2		1/2		1/2	
3/4	85,906	3/4	70,861	3/4	55,815	3/4	41,204	3/4	26,332	3/4	11,287	3/4		3/4		3/4		3/4	
3	85,592	3	70,547	3	55,502	3	40,902	3	26,018	3	10,973	3		3		3		3	
1/4	85,279	1/4	70,234	1/4	55,188	1/4	40,600	1/4	25,705	1/4	10,660	1/4		1/4		1/4		1/4	
1/2	84,966	1/2	69,920	1/2	54,875	1/2	40,297	1/2	25,391	1/2	10,347	1/2		1/2		1/2		1/2	
3/4	84,652	3/4	69,607	3/4	54,561	3/4	39,995	3/4	25,078	3/4	10,033	3/4		3/4		3/4		3/4	
4	84,339	4	69,293	4	54,248	4	39,693	4	24,765	4	9,720	4		4		4		4	
1/4	84,025	1/4	68,980	1/4	53,935	1/4	39,390	1/4	24,451	1/4	9,406	1/4		1/4		1/4		1/4	
1/2	83,712	1/2	68,666	1/2	53,621	1/2	39,088	1/2	24,138	1/2	9,093	1/2		1/2		1/2		1/2	
3/4	83,398	3/4	68,353	3/4	53,315	3/4	38,785	3/4	23,824	3/4	8,779	3/4		3/4		3/4		3/4	
5	83,085	5	68,040	5	53,009	5	38,482	5	23,511	5	8,466	5		5		5		5	
1/4	82,771	1/4	67,726	1/4	52,704	1/4	38,179	1/4	23,197	1/4	8,152	1/4		1/4		1/4		1/4	
1/2	82,458	1/2	67,413	1/2	52,398	1/2	37,876	1/2	22,884	1/2	7,839	1/2		1/2		1/2		1/2	
3/4	82,145	3/4	67,099	3/4	52,095	3/4	37,572	3/4	22,571	3/4	7,526	3/4		3/4		3/4		3/4	
6	81,831	6	66,786	6	51,791	6	37,269	6	22,257	6	7,212	6		6		6		6	
1/4	81,518	1/4	66,472	1/4	51,488	1/4	36,966	1/4	21,944	1/4	6,899	1/4		1/4		1/4		1/4	
1/2	81,204	1/2	66,159	1/2	51,185	1/2	36,663	1/2	21,630	1/2	6,585	1/2		1/2		1/2		1/2	
3/4	80,891	3/4	65,845	3/4	50,882	3/4	36,352	3/4	21,317	3/4	6,272	3/4		3/4		3/4		3/4	
7	80,577	7	65,532	7	50,579	7	36,041	7	21,003	7	5,959	7		7		7		7	
1/4	80,264	1/4	65,219	1/4	50,276	1/4	35,730	1/4	20,690	1/4	5,645	1/4		1/4		1/4		1/4	
1/2	79,950	1/2	64,905	1/2	49,974	1/2	35,419	1/2	20,376	1/2	5,332	1/2		1/2		1/2		1/2	
3/4	79,637	3/4	64,592	3/4	49,671	3/4	35,106	3/4	20,063	3/4	5,019	3/4		3/4		3/4		3/4	
8	79,324	8	64,278	8	49,368	8	34,792	8	19,750	8	4,706	8		8		8		8	
1/4	79,010	1/4	63,965	1/4	49,066	1/4	34,479	1/4	19,436	1/4	4,392	1/4		1/4		1/4		1/4	
1/2	78,697	1/2	63,651	1/2	48,763	1/2	34,165	1/2	19,123	1/2	4,079	1/2		1/2		1/2		1/2	
3/4	78,383	3/4	63,338	3/4	48,461	3/4	33,852	3/4	18,809	3/4	3,767	3/4		3/4		3/4		3/4	
9	78,070	9	63,024	9	48,158	9	33,538	9	18,496	9	3,455	9		9		9		9	
1/4	77,756	1/4	62,711	1/4	47,856	1/4	33,225	1/4	18,182	1/4	3,143	1/4		1/4		1/4		1/4	
1/2	77,443	1/2	62,398	1/2	47,554	1/2	32,912	1/2	17,869	1/2	2,831	1/2		1/2		1/2		1/2	
3/4	77,129	3/4	62,084	3/4	47,251	3/4	32,598	3/4	17,556	3/4	2,547	3/4		3/4		3/4		3/4	
10	76,816	10	61,771	10	46,949	10	32,285	10	17,242	10	2,263	10		10		10		10	
1/4	76,503	1/4	61,457	1/4	46,647	1/4	31,971	1/4	16,929	1/4	1,980	1/4		1/4		1/4		1/4	
1/2	76,189	1/2	61,144	1/2	46,344	1/2	31,658	1/2	16,615	1/2	1,696	1/2		1/2		1/2		1/2	
3/4	75,876	3/4	60,830	3/4	46,042	3/4	31,344	3/4	16,302	3/4	1,481	3/4		3/4		3/4		3/4	
11	75,562	11	60,517	11	45,740	11	31,031	11	15,988	11	1,265	11		11		11		11	
1/4	75,249	1/4	60,203	1/4	45,437	1/4	30,718	1/4	15,675	1/4	1,050	1/4		1/4		1/4		1/4	
1/2	74,935	1/2	59,890	1/2	45,135	1/2	30,404	1/2	15,361	1/2	834	1/2		1/2		1/2		1/2	
3/4	74,622	3/4	59,577	3/4	44,833	3/4	30,091	3/4	15,048	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/15/2024 CL
CALCULATED: 10/16/2024 CL
PRINTED: 10/16/2024 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "HSM 4103"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0		0	210,314	0	195,405	0	180,422	0	165,397	0	150,362	0	135,328	0	120,294	0	105,257
1/4		1/4		1/4	210,005	1/4	195,093	1/4	180,110	1/4	165,083	1/4	150,049	1/4	135,015	1/4	119,981	1/4	104,944
1/2		1/2		1/2	209,697	1/2	194,781	1/2	179,798	1/2	164,770	1/2	149,736	1/2	134,702	1/2	119,668	1/2	104,631
3/4		3/4		3/4	209,388	3/4	194,469	3/4	179,486	3/4	164,457	3/4	149,423	3/4	134,389	3/4	119,354	3/4	104,317
1		1		1	209,079	1	194,157	1	179,174	1	164,144	1	149,110	1	134,075	1	119,041	1	104,004
1/4		1/4		1/4	208,770	1/4	193,844	1/4	178,861	1/4	163,830	1/4	148,796	1/4	133,762	1/4	118,728	1/4	103,691
1/2		1/2		1/2	208,461	1/2	193,532	1/2	178,549	1/2	163,517	1/2	148,483	1/2	133,449	1/2	118,415	1/2	103,377
3/4		3/4		3/4	208,152	3/4	193,220	3/4	178,237	3/4	163,204	3/4	148,170	3/4	133,136	3/4	118,102	3/4	103,064
2		2		2	207,843	2	192,908	2	177,924	2	162,891	2	147,857	2	132,823	2	117,788	2	102,751
1/4		1/4		1/4	207,534	1/4	192,596	1/4	177,611	1/4	162,578	1/4	147,543	1/4	132,509	1/4	117,475	1/4	102,437
1/2		1/2		1/2	207,224	1/2	192,284	1/2	177,298	1/2	162,264	1/2	147,230	1/2	132,196	1/2	117,162	1/2	102,124
3/4		3/4		3/4	206,915	3/4	191,972	3/4	176,985	3/4	161,951	3/4	146,917	3/4	131,883	3/4	116,849	3/4	101,810
3		3		3	206,606	3	191,659	3	176,672	3	161,638	3	146,604	3	131,570	3	116,536	3	101,497
1/4		1/4		1/4	206,297	1/4	191,347	1/4	176,359	1/4	161,325	1/4	146,291	1/4	131,256	1/4	116,222	1/4	101,184
1/2		1/2		1/2	205,988	1/2	191,035	1/2	176,046	1/2	161,012	1/2	145,977	1/2	130,943	1/2	115,909	1/2	100,870
3/4		3/4		3/4	205,678	3/4	190,723	3/4	175,732	3/4	160,698	3/4	145,664	3/4	130,630	3/4	115,596	3/4	100,557
4		4		4	205,369	4	190,411	4	175,419	4	160,385	4	145,351	4	130,317	4	115,283	4	100,244
1/4		1/4		1/4	205,060	1/4	190,099	1/4	175,106	1/4	160,072	1/4	145,038	1/4	130,004	1/4	114,970	1/4	99,930
1/2		1/2		1/2	204,751	1/2	189,787	1/2	174,793	1/2	159,759	1/2	144,725	1/2	129,690	1/2	114,656	1/2	99,617
3/4		3/4		3/4	204,442	3/4	189,474	3/4	174,480	3/4	159,446	3/4	144,411	3/4	129,377	3/4	114,343	3/4	99,303
5		5		5	204,133	5	189,162	5	174,166	5	159,132	5	144,098	5	129,064	5	114,030	5	98,990
1/4		1/4		1/4	203,824	1/4	188,850	1/4	173,853	1/4	158,819	1/4	143,785	1/4	128,751	1/4	113,717	1/4	98,677
1/2		1/2		1/2	203,515	1/2	188,538	1/2	173,540	1/2	158,506	1/2	143,472	1/2	128,438	1/2	113,403	1/2	98,363
3/4		3/4		3/4	203,206	3/4	188,226	3/4	173,227	3/4	158,193	3/4	143,159	3/4	128,124	3/4	113,090	3/4	98,050
6		6		6	202,894	6	187,914	6	172,914	6	157,879	6	142,845	6	127,811	6	112,777	6	97,737
1/4		1/4		1/4	202,583	1/4	187,602	1/4	172,600	1/4	157,566	1/4	142,532	1/4	127,498	1/4	112,464	1/4	97,423
1/2		1/2		1/2	202,272	1/2	187,289	1/2	172,287	1/2	157,253	1/2	142,219	1/2	127,185	1/2	112,151	1/2	97,110
3/4		3/4		3/4	201,960	3/4	186,977	3/4	171,974	3/4	156,940	3/4	141,906	3/4	126,872	3/4	111,837	3/4	96,796
7		7		7	201,648	7	186,665	7	171,661	7	156,627	7	141,592	7	126,558	7	111,524	7	96,483
1/4		1/4		1/4	201,336	1/4	186,353	1/4	171,348	1/4	156,313	1/4	141,279	1/4	126,245	1/4	111,211	1/4	96,170
1/2		1/2		1/2	201,024	1/2	186,041	1/2	171,034	1/2	156,000	1/2	140,966	1/2	125,932	1/2	110,898	1/2	95,856
3/4		3/4		3/4	214,442	3/4	200,712	3/4	185,729	3/4	170,721	3/4	155,687	3/4	140,653	3/4	125,619	3/4	110,585
8		8		8	214,276	8	200,400	8	185,417	8	170,408	8	155,374	8	140,340	8	125,305	8	110,271
1/4		1/4		1/4	214,111	1/4	200,087	1/4	185,104	1/4	170,095	1/4	155,061	1/4	140,026	1/4	124,992	1/4	109,958
1/2		1/2		1/2	213,945	1/2	199,775	1/2	184,792	1/2	169,781	1/2	154,747	1/2	139,713	1/2	124,679	1/2	109,645
3/4		3/4		3/4	213,780	3/4	199,463	3/4	184,480	3/4	169,468	3/4	154,434	3/4	139,400	3/4	124,366	3/4	109,331
9		9		9	213,562	9	199,151	9	184,168	9	169,155	9	154,121	9	139,087	9	124,053	9	109,018
1/4		1/4		1/4	213,344	1/4	198,839	1/4	183,856	1/4	168,842	1/4	153,808	1/4	138,774	1/4	123,739	1/4	108,705
1/2		1/2		1/2	213,126	1/2	198,527	1/2	183,544	1/2	168,529	1/2	153,494	1/2	138,460	1/2	123,426	1/2	108,391
3/4		3/4		3/4	212,908	3/4	198,215	3/4	183,231	3/4	168,215	3/4	153,181	3/4	138,147	3/4	123,113	3/4	108,078
10		10		10	212,638	10	197,902	10	182,919	10	167,902	10	152,868	10	137,834	10	122,800	10	107,764
1/4		1/4		1/4	212,368	1/4	197,590	1/4	182,607	1/4	167,589	1/4	152,555	1/4	137,521	1/4	122,487	1/4	107,451
1/2		1/2		1/2	212,098	1/2	197,278	1/2	182,295	1/2	167,276	1/2	152,242	1/2	137,208	1/2	122,173	1/2	107,138
3/4		3/4		3/4	211,828	3/4	196,966	3/4	181,983	3/4	166,963	3/4	151,928	3/4	136,894	3/4	121,860	3/4	106,824
11		11		11	211,527	11	196,654	11	181,671	11	166,649	11	151,615	11	136,581	11	121,547	11	106,511
1/4		1/4		1/4	211,225	1/4	196,342	1/4	181,359	1/4	166,336	1/4	151,302	1/4	136,268	1/4	121,234	1/4	106,198
1/2		1/2		1/2	210,924	1/2	196,030	1/2	181,046	1/2	166,023	1/2	150,989	1/2	135,955	1/2	120,921	1/2	105,884
3/4		3/4		3/4	210,622	3/4	195,717	3/4	180,734	3/4	165,710	3/4	150,676	3/4	135,641	3/4	120,607	3/4	105,571

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 4103"

2 STBD ULLAGE TABLE

..... GALLONS

GAUGE HEIGHT 15'-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	90,216	0	75,174	0	60,132	0	45,107	0	30,084	0	15,045	0		0		0		0	
1/4	89,902	1/4	74,861	1/4	59,819	1/4	44,795	1/4	29,771	1/4	14,732	1/4		1/4		1/4		1/4	
1/2	89,589	1/2	74,547	1/2	59,506	1/2	44,483	1/2	29,458	1/2	14,418	1/2		1/2		1/2		1/2	
3/4	89,276	3/4	74,234	3/4	59,192	3/4	44,170	3/4	29,145	3/4	14,105	3/4		3/4		3/4		3/4	
1	88,962	1	73,921	1	58,879	1	43,858	1	28,832	1	13,792	1		1		1		1	
1/4	88,649	1/4	73,607	1/4	58,565	1/4	43,545	1/4	28,518	1/4	13,478	1/4		1/4		1/4		1/4	
1/2	88,336	1/2	73,294	1/2	58,252	1/2	43,233	1/2	28,205	1/2	13,165	1/2		1/2		1/2		1/2	
3/4	88,022	3/4	72,980	3/4	57,939	3/4	42,920	3/4	27,892	3/4	12,851	3/4		3/4		3/4		3/4	
2	87,709	2	72,667	2	57,625	2	42,608	2	27,579	2	12,538	2		2		2		2	
1/4	87,395	1/4	72,354	1/4	57,312	1/4	42,295	1/4	27,266	1/4	12,225	1/4		1/4		1/4		1/4	
1/2	87,082	1/2	72,040	1/2	56,999	1/2	41,983	1/2	26,953	1/2	11,911	1/2		1/2		1/2		1/2	
3/4	86,769	3/4	71,727	3/4	56,685	3/4	41,671	3/4	26,639	3/4	11,598	3/4		3/4		3/4		3/4	
3	86,455	3	71,414	3	56,372	3	41,358	3	26,326	3	11,285	3		3		3		3	
1/4	86,142	1/4	71,100	1/4	56,059	1/4	41,046	1/4	26,013	1/4	10,971	1/4		1/4		1/4		1/4	
1/2	85,829	1/2	70,787	1/2	55,745	1/2	40,733	1/2	25,699	1/2	10,658	1/2		1/2		1/2		1/2	
3/4	85,515	3/4	70,474	3/4	55,432	3/4	40,421	3/4	25,386	3/4	10,344	3/4		3/4		3/4		3/4	
4	85,202	4	70,160	4	55,118	4	40,108	4	25,073	4	10,031	4		4		4		4	
1/4	84,888	1/4	69,847	1/4	54,805	1/4	39,796	1/4	24,759	1/4	9,718	1/4		1/4		1/4		1/4	
1/2	84,575	1/2	69,533	1/2	54,492	1/2	39,484	1/2	24,446	1/2	9,404	1/2		1/2		1/2		1/2	
3/4	84,262	3/4	69,220	3/4	54,178	3/4	39,171	3/4	24,133	3/4	9,091	3/4		3/4		3/4		3/4	
5	83,948	5	68,907	5	53,865	5	38,858	5	23,819	5	8,778	5		5		5		5	
1/4	83,635	1/4	68,593	1/4	53,552	1/4	38,545	1/4	23,506	1/4	8,464	1/4		1/4		1/4		1/4	
1/2	83,322	1/2	68,280	1/2	53,238	1/2	38,232	1/2	23,193	1/2	8,151	1/2		1/2		1/2		1/2	
3/4	83,008	3/4	67,967	3/4	52,925	3/4	37,919	3/4	22,879	3/4	7,838	3/4		3/4		3/4		3/4	
6	82,695	6	67,653	6	52,611	6	37,605	6	22,566	6	7,524	6		6		6		6	
1/4	82,382	1/4	67,340	1/4	52,298	1/4	37,292	1/4	22,252	1/4	7,211	1/4		1/4		1/4		1/4	
1/2	82,068	1/2	67,026	1/2	51,985	1/2	36,978	1/2	21,939	1/2	6,897	1/2		1/2		1/2		1/2	
3/4	81,755	3/4	66,713	3/4	51,671	3/4	36,665	3/4	21,626	3/4	6,584	3/4		3/4		3/4		3/4	
7	81,441	7	66,400	7	51,359	7	36,352	7	21,312	7	6,271	7		7		7		7	
1/4	81,128	1/4	66,086	1/4	51,046	1/4	36,038	1/4	20,999	1/4	5,957	1/4		1/4		1/4		1/4	
1/2	80,815	1/2	65,773	1/2	50,733	1/2	35,725	1/2	20,686	1/2	5,644	1/2		1/2		1/2		1/2	
3/4	80,501	3/4	65,460	3/4	50,420	3/4	35,412	3/4	20,372	3/4	5,331	3/4		3/4		3/4		3/4	
8	80,188	8	65,146	8	50,107	8	35,098	8	20,059	8	5,018	8		8		8		8	
1/4	79,875	1/4	64,833	1/4	49,795	1/4	34,785	1/4	19,746	1/4	4,705	1/4		1/4		1/4		1/4	
1/2	79,561	1/2	64,520	1/2	49,482	1/2	34,472	1/2	19,432	1/2	4,392	1/2		1/2		1/2		1/2	
3/4	79,248	3/4	64,206	3/4	49,169	3/4	34,158	3/4	19,119	3/4	4,079	3/4		3/4		3/4		3/4	
9	78,934	9	63,893	9	48,857	9	33,845	9	18,805	9	3,767	9		9		9		9	
1/4	78,621	1/4	63,579	1/4	48,544	1/4	33,531	1/4	18,492	1/4	3,454	1/4		1/4		1/4		1/4	
1/2	78,308	1/2	63,266	1/2	48,232	1/2	33,218	1/2	18,179	1/2	3,142	1/2		1/2		1/2		1/2	
3/4	77,994	3/4	62,953	3/4	47,919	3/4	32,905	3/4	17,865	3/4	2,830	3/4		3/4		3/4		3/4	
10	77,681	10	62,639	10	47,607	10	32,591	10	17,552	10	2,547	10		10		10		10	
1/4	77,368	1/4	62,326	1/4	47,295	1/4	32,278	1/4	17,239	1/4	2,263	1/4		1/4		1/4		1/4	
1/2	77,054	1/2	62,013	1/2	46,982	1/2	31,965	1/2	16,925	1/2	1,980	1/2		1/2		1/2		1/2	
3/4	76,741	3/4	61,699	3/4	46,670	3/4	31,651	3/4	16,612	3/4	1,696	3/4		3/4		3/4		3/4	
11	76,428	11	61,386	11	46,357	11	31,338	11	16,298	11	1,481	11		11		11		11	
1/4	76,114	1/4	61,072	1/4	46,045	1/4	31,024	1/4	15,985	1/4	1,265	1/4		1/4		1/4		1/4	
1/2	75,801	1/2	60,759	1/2	45,732	1/2	30,711	1/2	15,672	1/2	1,050	1/2		1/2		1/2		1/2	
3/4	75,487	3/4	60,446	3/4	45,420	3/4	30,398	3/4	15,358	3/4	834	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/15/2024 CL
CALCULATED: 10/16/2024 CL
PRINTED: 10/16/2024 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024



BARGE "HSM 4103"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	192,478	0	181,212	0	170,030	0	158,816	0	147,603	0	133,330	0	118,382	0	103,429
1/4		1/4		1/4	192,240	1/4	180,979	1/4	169,797	1/4	158,582	1/4	147,371	1/4	133,019	1/4	118,071	1/4	103,117
1/2		1/2		1/2	192,001	1/2	180,746	1/2	169,564	1/2	158,348	1/2	147,138	1/2	132,708	1/2	117,759	1/2	102,806
3/4		3/4		3/4	191,762	3/4	180,513	3/4	169,331	3/4	158,115	3/4	146,905	3/4	132,396	3/4	117,448	3/4	102,494
1		1		1	191,523	1	180,280	1	169,098	1	157,881	1	146,673	1	132,085	1	117,137	1	102,182
1/4		1/4		1/4	191,284	1/4	180,047	1/4	168,865	1/4	157,647	1/4	146,440	1/4	131,773	1/4	116,825	1/4	101,870
1/2		1/2		1/2	191,045	1/2	179,814	1/2	168,632	1/2	157,414	1/2	146,153	1/2	131,462	1/2	116,514	1/2	101,558
3/4		3/4		3/4	190,806	3/4	179,581	3/4	168,398	3/4	157,180	3/4	145,867	3/4	131,150	3/4	116,202	3/4	101,246
2		2		2	190,567	2	179,348	2	168,165	2	156,946	2	145,580	2	130,839	2	115,891	2	100,935
1/4		1/4		1/4	190,328	1/4	179,115	1/4	167,931	1/4	156,712	1/4	145,294	1/4	130,528	1/4	115,580	1/4	100,623
1/2		1/2		1/2	190,089	1/2	178,882	1/2	167,697	1/2	156,479	1/2	144,989	1/2	130,216	1/2	115,268	1/2	100,311
3/4		3/4		3/4	189,850	3/4	178,649	3/4	167,464	3/4	156,245	3/4	144,685	3/4	129,905	3/4	114,957	3/4	99,999
3		3		3	189,611	3	178,416	3	167,230	3	156,011	3	144,380	3	129,593	3	114,645	3	99,687
1/4		1/4		1/4	189,372	1/4	178,184	1/4	166,996	1/4	155,778	1/4	144,076	1/4	129,282	1/4	114,334	1/4	99,375
1/2		1/2		1/2	189,137	1/2	177,951	1/2	166,762	1/2	155,544	1/2	143,771	1/2	128,971	1/2	114,022	1/2	99,063
3/4		3/4		3/4	188,903	3/4	177,718	3/4	166,529	3/4	155,310	3/4	143,467	3/4	128,659	3/4	113,711	3/4	98,752
4		4		4	188,668	4	177,485	4	166,295	4	155,076	4	143,162	4	128,348	4	113,400	4	98,440
1/4		1/4		1/4	188,434	1/4	177,252	1/4	166,061	1/4	154,843	1/4	142,858	1/4	128,036	1/4	113,088	1/4	98,128
1/2		1/2		1/2	188,201	1/2	177,019	1/2	165,827	1/2	154,609	1/2	142,553	1/2	127,725	1/2	112,777	1/2	97,816
3/4		3/4		3/4	187,968	3/4	176,786	3/4	165,594	3/4	154,375	3/4	142,247	3/4	127,413	3/4	112,465	3/4	97,505
5		5		5	187,735	5	176,553	5	165,360	5	154,141	5	141,942	5	127,102	5	112,154	5	97,193
1/4		1/4		1/4	187,502	1/4	176,320	1/4	165,126	1/4	153,908	1/4	141,637	1/4	126,791	1/4	111,843	1/4	96,881
1/2		1/2		1/2	187,269	1/2	176,087	1/2	164,893	1/2	153,674	1/2	141,332	1/2	126,479	1/2	111,531	1/2	96,570
3/4		3/4		3/4	187,036	3/4	175,854	3/4	164,659	3/4	153,440	3/4	141,026	3/4	126,168	3/4	111,220	3/4	96,258
6		6		6	186,803	6	175,621	6	164,425	6	153,207	6	140,721	6	125,856	6	110,908	6	95,947
1/4		1/4		1/4	186,570	1/4	175,388	1/4	164,191	1/4	152,973	1/4	140,415	1/4	125,545	1/4	110,597	1/4	95,635
1/2		1/2		1/2	186,337	1/2	175,155	1/2	163,958	1/2	152,739	1/2	140,110	1/2	125,233	1/2	110,285	1/2	95,324
3/4		3/4		3/4	186,104	3/4	174,922	3/4	163,724	3/4	152,505	3/4	139,804	3/4	124,922	3/4	109,974	3/4	95,012
7		7		7	185,871	7	174,689	7	163,490	7	152,272	7	139,499	7	124,611	7	109,663	7	94,700
1/4		1/4		1/4	195,865	1/4	185,638	1/4	174,456	1/4	163,257	1/4	139,194	1/4	124,299	1/4	109,351	1/4	94,389
1/2		1/2		1/2	195,771	1/2	185,405	1/2	174,223	1/2	163,023	1/2	138,888	1/2	123,988	1/2	109,040	1/2	94,077
3/4		3/4		3/4	195,677	3/4	185,172	3/4	173,990	3/4	162,789	3/4	138,583	3/4	123,676	3/4	108,728	3/4	93,766
8		8		8	195,583	8	184,939	8	173,757	8	162,555	8	138,277	8	123,365	8	108,417	8	93,454
1/4		1/4		1/4	195,489	1/4	184,706	1/4	173,524	1/4	162,322	1/4	137,972	1/4	123,054	1/4	108,105	1/4	93,142
1/2		1/2		1/2	195,342	1/2	184,473	1/2	173,291	1/2	162,088	1/2	137,666	1/2	122,742	1/2	107,794	1/2	92,831
3/4		3/4		3/4	195,196	3/4	184,241	3/4	173,058	3/4	161,854	3/4	137,361	3/4	122,431	3/4	107,482	3/4	92,519
9		9		9	195,050	9	184,008	9	172,825	9	161,621	9	137,055	9	122,119	9	107,171	9	92,208
1/4		1/4		1/4	194,904	1/4	183,775	1/4	172,592	1/4	161,387	1/4	136,750	1/4	121,808	1/4	106,859	1/4	91,896
1/2		1/2		1/2	194,705	1/2	183,542	1/2	172,360	1/2	161,153	1/2	136,440	1/2	121,496	1/2	106,547	1/2	91,585
3/4		3/4		3/4	194,507	3/4	183,309	3/4	172,127	3/4	160,919	3/4	136,130	3/4	121,185	3/4	106,236	3/4	91,273
10		10		10	194,309	10	183,076	10	171,894	10	160,686	10	149,467	10	135,820	10	105,924	10	90,961
1/4		1/4		1/4	194,111	1/4	182,843	1/4	171,661	1/4	160,452	1/4	149,233	1/4	135,510	1/4	105,612	1/4	90,650
1/2		1/2		1/2	193,881	1/2	182,610	1/2	171,428	1/2	160,218	1/2	149,000	1/2	135,199	1/2	105,300	1/2	90,338
3/4		3/4		3/4	193,651	3/4	182,377	3/4	171,195	3/4	159,984	3/4	148,767	3/4	134,887	3/4	104,988	3/4	90,027
11		11		11	193,421	11	182,144	11	170,962	11	159,751	11	148,534	11	134,576	11	104,677	11	89,715
1/4		1/4		1/4	193,192	1/4	181,911	1/4	170,729	1/4	159,517	1/4	148,302	1/4	134,265	1/4	104,365	1/4	89,403
1/2		1/2		1/2	192,954	1/2	181,678	1/2	170,496	1/2	159,283	1/2	148,069	1/2	133,953	1/2	104,053	1/2	89,092
3/4		3/4		3/4	192,716	3/4	181,445	3/4	170,263	3/4	159,050	3/4	147,836	3/4	133,642	3/4	103,741	3/4	88,780

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 4103"

3 PORT ULLAGE TABLE

U.S. GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	88,469	0	73,526	0	58,640	0	44,119	0	29,340	0	14,368	0		0		0		0	
1/4	88,157	1/4	73,216	1/4	58,333	1/4	43,815	1/4	29,029	1/4	14,056	1/4		1/4		1/4		1/4	
1/2	87,845	1/2	72,906	1/2	58,028	1/2	43,510	1/2	28,717	1/2	13,744	1/2		1/2		1/2		1/2	
3/4	87,533	3/4	72,596	3/4	57,723	3/4	43,206	3/4	28,405	3/4	13,432	3/4		3/4		3/4		3/4	
1	87,222	1	72,286	1	57,417	1	42,901	1	28,093	1	13,120	1		1		1		1	
1/4	86,910	1/4	71,976	1/4	57,112	1/4	42,596	1/4	27,782	1/4	12,808	1/4		1/4		1/4		1/4	
1/2	86,598	1/2	71,666	1/2	56,809	1/2	42,292	1/2	27,470	1/2	12,496	1/2		1/2		1/2		1/2	
3/4	86,286	3/4	71,356	3/4	56,506	3/4	41,987	3/4	27,158	3/4	12,184	3/4		3/4		3/4		3/4	
2	85,974	2	71,046	2	56,203	2	41,683	2	26,846	2	11,872	2		2		2		2	
1/4	85,662	1/4	70,736	1/4	55,900	1/4	41,378	1/4	26,534	1/4	11,560	1/4		1/4		1/4		1/4	
1/2	85,350	1/2	70,426	1/2	55,598	1/2	41,073	1/2	26,222	1/2	11,248	1/2		1/2		1/2		1/2	
3/4	85,038	3/4	70,116	3/4	55,296	3/4	40,769	3/4	25,911	3/4	10,936	3/4		3/4		3/4		3/4	
3	84,727	3	69,807	3	54,994	3	40,464	3	25,599	3	10,623	3		3		3		3	
1/4	84,415	1/4	69,497	1/4	54,692	1/4	40,159	1/4	25,287	1/4	10,311	1/4		1/4		1/4		1/4	
1/2	84,103	1/2	69,187	1/2	54,390	1/2	39,855	1/2	24,975	1/2	9,999	1/2		1/2		1/2		1/2	
3/4	83,791	3/4	68,877	3/4	54,088	3/4	39,550	3/4	24,663	3/4	9,686	3/4		3/4		3/4		3/4	
4	83,479	4	68,567	4	53,786	4	39,245	4	24,351	4	9,374	4		4		4		4	
1/4	83,167	1/4	68,257	1/4	53,484	1/4	38,941	1/4	24,039	1/4	9,061	1/4		1/4		1/4		1/4	
1/2	82,855	1/2	67,947	1/2	53,181	1/2	38,636	1/2	23,727	1/2	8,749	1/2		1/2		1/2		1/2	
3/4	82,543	3/4	67,637	3/4	52,879	3/4	38,332	3/4	23,415	3/4	8,437	3/4		3/4		3/4		3/4	
5	82,231	5	67,327	5	52,577	5	38,027	5	23,103	5	8,124	5		5		5		5	
1/4	81,920	1/4	67,017	1/4	52,275	1/4	37,722	1/4	22,791	1/4	7,812	1/4		1/4		1/4		1/4	
1/2	81,608	1/2	66,707	1/2	51,973	1/2	37,418	1/2	22,479	1/2	7,500	1/2		1/2		1/2		1/2	
3/4	81,296	3/4	66,397	3/4	51,671	3/4	37,113	3/4	22,167	3/4	7,188	3/4		3/4		3/4		3/4	
6	80,984	6	66,087	6	51,369	6	36,808	6	21,855	6	6,876	6		6		6		6	
1/4	80,672	1/4	65,777	1/4	51,067	1/4	36,504	1/4	21,543	1/4	6,564	1/4		1/4		1/4		1/4	
1/2	80,360	1/2	65,467	1/2	50,765	1/2	36,194	1/2	21,231	1/2	6,251	1/2		1/2		1/2		1/2	
3/4	80,048	3/4	65,158	3/4	50,463	3/4	35,885	3/4	20,919	3/4	5,939	3/4		3/4		3/4		3/4	
7	79,736	7	64,848	7	50,160	7	35,576	7	20,607	7	5,627	7		7		7		7	
1/4	79,424	1/4	64,538	1/4	49,858	1/4	35,266	1/4	20,295	1/4	5,315	1/4		1/4		1/4		1/4	
1/2	79,112	1/2	64,228	1/2	49,556	1/2	34,955	1/2	19,983	1/2	5,003	1/2		1/2		1/2		1/2	
3/4	78,801	3/4	63,918	3/4	49,254	3/4	34,643	3/4	19,671	3/4	4,691	3/4		3/4		3/4		3/4	
8	78,489	8	63,608	8	48,952	8	34,331	8	19,359	8	4,379	8		8		8		8	
1/4	78,177	1/4	63,298	1/4	48,650	1/4	34,019	1/4	19,047	1/4	4,067	1/4		1/4		1/4		1/4	
1/2	77,866	1/2	62,987	1/2	48,348	1/2	33,708	1/2	18,735	1/2	3,755	1/2		1/2		1/2		1/2	
3/4	77,556	3/4	62,676	3/4	48,046	3/4	33,396	3/4	18,424	3/4	3,444	3/4		3/4		3/4		3/4	
9	77,245	9	62,364	9	47,744	9	33,084	9	18,112	9	3,133	9		9		9		9	
1/4	76,935	1/4	62,053	1/4	47,442	1/4	32,772	1/4	17,800	1/4	2,822	1/4		1/4		1/4		1/4	
1/2	76,625	1/2	61,742	1/2	47,140	1/2	32,460	1/2	17,488	1/2	2,539	1/2		1/2		1/2		1/2	
3/4	76,315	3/4	61,430	3/4	46,839	3/4	32,148	3/4	17,176	3/4	2,256	3/4		3/4		3/4		3/4	
10	76,005	10	61,118	10	46,537	10	31,836	10	16,864	10	1,974	10		10		10		10	
1/4	75,695	1/4	60,807	1/4	46,236	1/4	31,524	1/4	16,552	1/4	1,691	1/4		1/4		1/4		1/4	
1/2	75,385	1/2	60,495	1/2	45,934	1/2	31,212	1/2	16,240	1/2	1,476	1/2		1/2		1/2		1/2	
3/4	75,075	3/4	60,184	3/4	45,633	3/4	30,900	3/4	15,928	3/4	1,261	3/4		3/4		3/4		3/4	
11	74,766	11	59,872	11	45,332	11	30,588	11	15,616	11	1,046	11		11		11		11	
1/4	74,456	1/4	59,561	1/4	45,030	1/4	30,276	1/4	15,304	1/4	832	1/4		1/4		1/4		1/4	
1/2	74,146	1/2	59,254	1/2	44,726	1/2	29,964	1/2	14,992	1/2		1/2		1/2		1/2		1/2	
3/4	73,836	3/4	58,947	3/4	44,423	3/4	29,652	3/4	14,680	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/15/2024 CL
CALCULATED: 10/16/2024 CL
PRINTED: 10/16/2024 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "HSM 4103"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0		0	193,727	0	182,457	0	171,275	0	160,061	0	148,848	0	134,627	0	119,648	0	104,664
1/4		1/4		1/4	193,490	1/4	182,224	1/4	171,042	1/4	159,828	1/4	148,615	1/4	134,314	1/4	119,336	1/4	104,352
1/2		1/2		1/2	193,252	1/2	181,991	1/2	170,809	1/2	159,594	1/2	148,382	1/2	134,002	1/2	119,024	1/2	104,039
3/4		3/4		3/4	193,013	3/4	181,758	3/4	170,576	3/4	159,360	3/4	148,149	3/4	133,690	3/4	118,711	3/4	103,727
1		1		1	192,774	1	181,525	1	170,343	1	159,127	1	147,917	1	133,378	1	118,399	1	103,414
1/4		1/4		1/4	192,535	1/4	181,292	1/4	170,110	1/4	158,893	1/4	147,684	1/4	133,066	1/4	118,087	1/4	103,102
1/2		1/2		1/2	192,296	1/2	181,059	1/2	169,877	1/2	158,659	1/2	147,451	1/2	132,754	1/2	117,775	1/2	102,789
3/4		3/4		3/4	192,057	3/4	180,826	3/4	169,643	3/4	158,425	3/4	147,164	3/4	132,442	3/4	117,463	3/4	102,477
2		2		2	191,818	2	180,593	2	169,410	2	158,192	2	146,877	2	132,130	2	117,151	2	102,164
1/4		1/4		1/4	191,579	1/4	180,360	1/4	169,176	1/4	157,958	1/4	146,590	1/4	131,818	1/4	116,839	1/4	101,852
1/2		1/2		1/2	191,340	1/2	180,127	1/2	168,943	1/2	157,724	1/2	146,303	1/2	131,506	1/2	116,527	1/2	101,539
3/4		3/4		3/4	191,101	3/4	179,894	3/4	168,709	3/4	157,491	3/4	145,998	3/4	131,194	3/4	116,215	3/4	101,227
3		3		3	190,862	3	179,661	3	168,475	3	157,257	3	145,693	3	130,882	3	115,903	3	100,914
1/4		1/4		1/4	190,623	1/4	179,428	1/4	168,242	1/4	157,023	1/4	145,388	1/4	130,570	1/4	115,591	1/4	100,602
1/2		1/2		1/2	190,384	1/2	179,195	1/2	168,008	1/2	156,789	1/2	145,082	1/2	130,258	1/2	115,279	1/2	100,289
3/4		3/4		3/4	190,149	3/4	178,962	3/4	167,774	3/4	156,556	3/4	144,777	3/4	129,946	3/4	114,967	3/4	99,977
4		4		4	189,915	4	178,729	4	167,541	4	156,322	4	144,472	4	129,634	4	114,655	4	99,664
1/4		1/4		1/4	189,680	1/4	178,496	1/4	167,307	1/4	156,088	1/4	144,167	1/4	129,321	1/4	114,343	1/4	99,352
1/2		1/2		1/2	189,446	1/2	178,264	1/2	167,073	1/2	155,854	1/2	143,862	1/2	129,009	1/2	114,031	1/2	99,039
3/4		3/4		3/4	189,213	3/4	178,031	3/4	166,839	3/4	155,621	3/4	143,556	3/4	128,697	3/4	113,718	3/4	98,727
5		5		5	188,980	5	177,798	5	166,606	5	155,387	5	143,250	5	128,385	5	113,406	5	98,415
1/4		1/4		1/4	188,747	1/4	177,565	1/4	166,372	1/4	155,153	1/4	142,944	1/4	128,073	1/4	113,094	1/4	98,102
1/2		1/2		1/2	188,514	1/2	177,332	1/2	166,138	1/2	154,920	1/2	142,638	1/2	127,761	1/2	112,782	1/2	97,790
3/4		3/4		3/4	188,281	3/4	177,099	3/4	165,904	3/4	154,686	3/4	142,332	3/4	127,449	3/4	112,470	3/4	97,477
6		6		6	188,048	6	176,866	6	165,671	6	154,452	6	142,026	6	127,137	6	112,158	6	97,165
1/4		1/4		1/4	187,815	1/4	176,633	1/4	165,437	1/4	154,218	1/4	141,720	1/4	126,825	1/4	111,846	1/4	96,852
1/2		1/2		1/2	187,582	1/2	176,400	1/2	165,203	1/2	153,985	1/2	141,414	1/2	126,513	1/2	111,534	1/2	96,540
3/4		3/4		3/4	187,349	3/4	176,167	3/4	164,970	3/4	153,751	3/4	141,108	3/4	126,201	3/4	111,222	3/4	96,227
7		7		7	187,116	7	175,934	7	164,736	7	153,517	7	140,802	7	125,889	7	110,910	7	95,915
1/4		1/4		1/4	186,883	1/4	175,701	1/4	164,502	1/4	153,284	1/4	140,496	1/4	125,577	1/4	110,598	1/4	95,602
1/2		1/2		1/2	196,877	1/2	186,650	1/2	175,468	1/2	164,268	1/2	153,050	1/2	140,190	1/2	125,265	1/2	110,286
3/4		3/4		3/4	196,783	3/4	186,417	3/4	175,235	3/4	164,035	3/4	152,816	3/4	139,884	3/4	124,953	3/4	109,974
8		8		8	196,689	8	186,184	8	175,002	8	163,801	8	152,582	8	139,578	8	124,641	8	109,662
1/4		1/4		1/4	196,595	1/4	185,951	1/4	174,769	1/4	163,567	1/4	152,349	1/4	139,272	1/4	124,329	1/4	94,352
1/2		1/2		1/2	196,500	1/2	185,718	1/2	174,536	1/2	163,334	1/2	152,115	1/2	138,965	1/2	124,016	1/2	109,037
3/4		3/4		3/4	196,354	3/4	185,485	3/4	174,303	3/4	163,100	3/4	151,881	3/4	138,659	3/4	123,704	3/4	108,725
9		9		9	196,208	9	185,252	9	174,070	9	162,866	9	151,648	9	138,353	9	123,392	9	108,413
1/4		1/4		1/4	196,062	1/4	185,019	1/4	173,837	1/4	162,632	1/4	151,414	1/4	138,047	1/4	123,080	1/4	108,101
1/2		1/2		1/2	195,915	1/2	184,786	1/2	173,604	1/2	162,399	1/2	151,180	1/2	137,741	1/2	122,768	1/2	107,789
3/4		3/4		3/4	195,717	3/4	184,553	3/4	173,371	3/4	162,165	3/4	150,946	3/4	137,431	3/4	122,456	3/4	107,476
10		10		10	195,519	10	184,321	10	173,138	10	161,931	10	150,713	10	137,120	10	122,144	10	107,164
1/4		1/4		1/4	195,321	1/4	184,088	1/4	172,905	1/4	161,697	1/4	150,479	1/4	136,809	1/4	121,832	1/4	106,851
1/2		1/2		1/2	195,122	1/2	183,855	1/2	172,672	1/2	161,464	1/2	150,245	1/2	136,499	1/2	121,520	1/2	106,539
3/4		3/4		3/4	194,893	3/4	183,622	3/4	172,440	3/4	161,230	3/4	150,012	3/4	136,187	3/4	121,208	3/4	106,226
11		11		11	194,663	11	183,389	11	172,207	11	160,996	11	149,779	11	135,875	11	120,896	11	105,914
1/4		1/4		1/4	194,433	1/4	183,156	1/4	171,974	1/4	160,763	1/4	149,546	1/4	135,563	1/4	120,584	1/4	105,602
1/2		1/2		1/2	194,203	1/2	182,923	1/2	171,741	1/2	160,529	1/2	149,313	1/2	135,251	1/2	120,272	1/2	105,289
3/4		3/4		3/4	193,965	3/4	182,690	3/4	171,508	3/4	160,295	3/4	149,080	3/4	134,939	3/4	119,960	3/4	104,977

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HSM 4103"

3 STBD ULLAGE TABLE

..... GALLONS

GAUGE HEIGHT 15'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	89,665	0	74,666	0	59,667	0	44,671	0	29,688	0	14,689	0		0		0		0	
1/4	89,353	1/4	74,354	1/4	59,355	1/4	44,359	1/4	29,375	1/4	14,377	1/4		1/4		1/4		1/4	
1/2	89,040	1/2	74,041	1/2	59,042	1/2	44,047	1/2	29,063	1/2	14,064	1/2		1/2		1/2		1/2	
3/4	88,728	3/4	73,729	3/4	58,730	3/4	43,735	3/4	28,750	3/4	13,752	3/4		3/4		3/4		3/4	
1	88,415	1	73,416	1	58,417	1	43,423	1	28,438	1	13,439	1		1		1		1	
1/4	88,103	1/4	73,104	1/4	58,105	1/4	43,111	1/4	28,125	1/4	13,127	1/4		1/4		1/4		1/4	
1/2	87,790	1/2	72,791	1/2	57,793	1/2	42,799	1/2	27,813	1/2	12,814	1/2		1/2		1/2		1/2	
3/4	87,478	3/4	72,479	3/4	57,480	3/4	42,487	3/4	27,500	3/4	12,502	3/4		3/4		3/4		3/4	
2	87,165	2	72,166	2	57,168	2	42,175	2	27,188	2	12,190	2		2		2		2	
1/4	86,853	1/4	71,854	1/4	56,855	1/4	41,863	1/4	26,876	1/4	11,877	1/4		1/4		1/4		1/4	
1/2	86,540	1/2	71,542	1/2	56,543	1/2	41,551	1/2	26,563	1/2	11,565	1/2		1/2		1/2		1/2	
3/4	86,228	3/4	71,229	3/4	56,230	3/4	41,239	3/4	26,251	3/4	11,252	3/4		3/4		3/4		3/4	
3	85,915	3	70,917	3	55,918	3	40,927	3	25,938	3	10,940	3		3		3		3	
1/4	85,603	1/4	70,604	1/4	55,605	1/4	40,615	1/4	25,626	1/4	10,627	1/4		1/4		1/4		1/4	
1/2	85,290	1/2	70,292	1/2	55,293	1/2	40,303	1/2	25,313	1/2	10,315	1/2		1/2		1/2		1/2	
3/4	84,978	3/4	69,979	3/4	54,980	3/4	39,991	3/4	25,001	3/4	10,002	3/4		3/4		3/4		3/4	
4	84,666	4	69,667	4	54,668	4	39,679	4	24,688	4	9,690	4		4		4		4	
1/4	84,353	1/4	69,354	1/4	54,355	1/4	39,367	1/4	24,376	1/4	9,377	1/4		1/4		1/4		1/4	
1/2	84,041	1/2	69,042	1/2	54,043	1/2	39,055	1/2	24,063	1/2	9,065	1/2		1/2		1/2		1/2	
3/4	83,728	3/4	68,729	3/4	53,730	3/4	38,743	3/4	23,751	3/4	8,752	3/4		3/4		3/4		3/4	
5	83,416	5	68,417	5	53,418	5	38,431	5	23,438	5	8,440	5		5		5		5	
1/4	83,103	1/4	68,104	1/4	53,105	1/4	38,119	1/4	23,126	1/4	8,127	1/4		1/4		1/4		1/4	
1/2	82,791	1/2	67,792	1/2	52,793	1/2	37,808	1/2	22,813	1/2	7,815	1/2		1/2		1/2		1/2	
3/4	82,478	3/4	67,479	3/4	52,480	3/4	37,496	3/4	22,501	3/4	7,503	3/4		3/4		3/4		3/4	
6	82,166	6	67,167	6	52,168	6	37,184	6	22,189	6	7,190	6		6		6		6	
1/4	81,853	1/4	66,854	1/4	51,855	1/4	36,872	1/4	21,876	1/4	6,878	1/4		1/4		1/4		1/4	
1/2	81,541	1/2	66,542	1/2	51,543	1/2	36,560	1/2	21,564	1/2	6,565	1/2		1/2		1/2		1/2	
3/4	81,228	3/4	66,229	3/4	51,231	3/4	36,248	3/4	21,251	3/4	6,253	3/4		3/4		3/4		3/4	
7	80,916	7	65,917	7	50,918	7	35,936	7	20,939	7	5,940	7		7		7		7	
1/4	80,603	1/4	65,604	1/4	50,606	1/4	35,624	1/4	20,626	1/4	5,628	1/4		1/4		1/4		1/4	
1/2	80,291	1/2	65,292	1/2	50,293	1/2	35,312	1/2	20,314	1/2	5,315	1/2		1/2		1/2		1/2	
3/4	79,978	3/4	64,979	3/4	49,981	3/4	34,999	3/4	20,001	3/4	5,003	3/4		3/4		3/4		3/4	
8	79,666	8	64,667	8	49,668	8	34,687	8	19,689	8	4,691	8		8		8		8	
1/4	79,353	1/4	64,355	1/4	49,356	1/4	34,375	1/4	19,376	1/4	4,379	1/4		1/4		1/4		1/4	
1/2	79,041	1/2	64,042	1/2	49,043	1/2	34,062	1/2	19,064	1/2	4,067	1/2		1/2		1/2		1/2	
3/4	78,728	3/4	63,730	3/4	48,731	3/4	33,750	3/4	18,751	3/4	3,756	3/4		3/4		3/4		3/4	
9	78,416	9	63,417	9	48,418	9	33,437	9	18,439	9	3,444	9		9		9		9	
1/4	78,104	1/4	63,105	1/4	48,106	1/4	33,125	1/4	18,126	1/4	3,133	1/4		1/4		1/4		1/4	
1/2	77,791	1/2	62,792	1/2	47,793	1/2	32,812	1/2	17,814	1/2	2,822	1/2		1/2		1/2		1/2	
3/4	77,479	3/4	62,480	3/4	47,481	3/4	32,500	3/4	17,501	3/4	2,539	3/4		3/4		3/4		3/4	
10	77,166	10	62,167	10	47,169	10	32,187	10	17,189	10	2,257	10		10		10		10	
1/4	76,854	1/4	61,855	1/4	46,856	1/4	31,875	1/4	16,877	1/4	1,974	1/4		1/4		1/4		1/4	
1/2	76,541	1/2	61,542	1/2	46,544	1/2	31,563	1/2	16,564	1/2	1,691	1/2		1/2		1/2		1/2	
3/4	76,229	3/4	61,230	3/4	46,232	3/4	31,250	3/4	16,252	3/4	1,476	3/4		3/4		3/4		3/4	
11	75,916	11	60,917	11	45,920	11	30,938	11	15,939	11	1,261	11		11		11		11	
1/4	75,604	1/4	60,605	1/4	45,608	1/4	30,625	1/4	15,627	1/4	1,047	1/4		1/4		1/4		1/4	
1/2	75,291	1/2	60,292	1/2	45,295	1/2	30,313	1/2	15,314	1/2	832	1/2		1/2		1/2		1/2	
3/4	74,979	3/4	59,980	3/4	44,983	3/4	30,000	3/4	15,002	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/15/2024 CL
CALCULATED: 10/16/2024 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2024