



BARGE "IB 1104"

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 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
2 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8
3 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 CENTER IS 00 3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 163'-00"

April 11, 2018

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



BARGE "IB 1104"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	157,506	0	146,830	0	136,153	0	125,477	0	113,749	0	101,267	0	88,786	0	76,303		
1/4	1/4	1/4	157,284	1/4	146,607	1/4	135,931	1/4	125,254	1/4	113,489	1/4	101,007	1/4	88,525	1/4	76,043		
1/2	1/2	1/2	166,880	1/2	157,061	1/2	146,385	1/2	135,708	1/2	125,032	1/2	113,229	1/2	100,747	1/2	88,265	1/2	75,783
3/4	3/4	3/4	166,790	3/4	156,839	3/4	146,162	3/4	135,486	3/4	124,809	3/4	112,969	3/4	100,487	3/4	88,005	3/4	75,523
1	1	1	166,701	1	156,617	1	145,940	1	135,263	1	124,587	1	112,709	1	100,227	1	87,745	1	75,263
1/4	1/4	1/4	166,611	1/4	156,394	1/4	145,718	1/4	135,041	1/4	124,365	1/4	112,449	1/4	99,967	1/4	87,485	1/4	75,003
1/2	1/2	1/2	166,522	1/2	156,172	1/2	145,495	1/2	134,819	1/2	124,142	1/2	112,189	1/2	99,707	1/2	87,225	1/2	74,743
3/4	3/4	3/4	166,366	3/4	155,949	3/4	145,273	3/4	134,596	3/4	123,920	3/4	111,929	3/4	99,447	3/4	86,965	3/4	74,483
2	2	2	166,211	2	155,727	2	145,050	2	134,374	2	123,697	2	111,669	2	99,187	2	86,705	2	74,223
1/4	1/4	1/4	166,055	1/4	155,504	1/4	144,828	1/4	134,151	1/4	123,475	1/4	111,409	1/4	98,927	1/4	86,445	1/4	73,963
1/2	1/2	1/2	165,900	1/2	155,282	1/2	144,605	1/2	133,929	1/2	123,252	1/2	111,148	1/2	98,667	1/2	86,185	1/2	73,703
3/4	3/4	3/4	165,691	3/4	155,060	3/4	144,383	3/4	133,707	3/4	123,030	3/4	110,888	3/4	98,407	3/4	85,925	3/4	73,443
3	3	3	165,482	3	154,837	3	144,161	3	133,484	3	122,808	3	110,628	3	98,147	3	85,665	3	73,183
1/4	1/4	1/4	165,273	1/4	154,615	1/4	143,938	1/4	133,262	1/4	122,585	1/4	110,368	1/4	97,887	1/4	85,405	1/4	72,923
1/2	1/2	1/2	165,064	1/2	154,392	1/2	143,716	1/2	133,039	1/2	122,363	1/2	110,108	1/2	97,627	1/2	85,145	1/2	72,663
3/4	3/4	3/4	164,842	3/4	154,170	3/4	143,493	3/4	132,817	3/4	122,141	3/4	109,848	3/4	97,367	3/4	84,885	3/4	72,403
4	4	4	164,621	4	153,947	4	143,271	4	132,594	4	121,918	4	109,588	4	97,107	4	84,625	4	72,143
1/4	1/4	1/4	164,400	1/4	153,725	1/4	143,048	1/4	132,372	1/4	121,696	1/4	109,328	1/4	96,847	1/4	84,365	1/4	71,883
1/2	1/2	1/2	164,178	1/2	153,503	1/2	142,826	1/2	132,150	1/2	121,474	1/2	109,068	1/2	96,587	1/2	84,105	1/2	71,623
3/4	3/4	3/4	163,956	3/4	153,280	3/4	142,604	3/4	131,927	3/4	121,233	3/4	108,808	3/4	96,327	3/4	83,845	3/4	71,363
5	5	5	163,734	5	153,058	5	142,381	5	131,705	5	120,992	5	108,548	5	96,067	5	83,585	5	71,103
1/4	1/4	1/4	163,511	1/4	152,835	1/4	142,159	1/4	131,482	1/4	120,751	1/4	108,288	1/4	95,807	1/4	83,325	1/4	70,843
1/2	1/2	1/2	163,289	1/2	152,613	1/2	141,936	1/2	131,260	1/2	120,510	1/2	108,028	1/2	95,547	1/2	83,065	1/2	70,584
3/4	3/4	3/4	163,067	3/4	152,390	3/4	141,714	3/4	131,037	3/4	120,250	3/4	107,768	3/4	95,287	3/4	82,805	3/4	70,324
6	6	6	162,844	6	152,168	6	141,491	6	130,815	6	119,990	6	107,508	6	95,027	6	82,544	6	70,065
1/4	1/4	1/4	162,622	1/4	151,946	1/4	141,269	1/4	130,593	1/4	119,730	1/4	107,248	1/4	94,767	1/4	82,284	1/4	69,805
1/2	1/2	1/2	162,400	1/2	151,723	1/2	141,047	1/2	130,370	1/2	119,470	1/2	106,988	1/2	94,507	1/2	82,024	1/2	69,546
3/4	3/4	3/4	162,177	3/4	151,501	3/4	140,824	3/4	130,148	3/4	119,210	3/4	106,728	3/4	94,246	3/4	81,764	3/4	69,286
7	7	7	161,955	7	151,278	7	140,602	7	129,925	7	118,950	7	106,468	7	93,986	7	81,504	7	69,027
1/4	1/4	1/4	161,732	1/4	151,056	1/4	140,379	1/4	129,703	1/4	118,690	1/4	106,208	1/4	93,726	1/4	81,244	1/4	68,768
1/2	1/2	1/2	161,510	1/2	150,833	1/2	140,157	1/2	129,480	1/2	118,430	1/2	105,948	1/2	93,466	1/2	80,984	1/2	68,508
3/4	3/4	3/4	161,288	3/4	150,611	3/4	139,934	3/4	129,258	3/4	118,170	3/4	105,688	3/4	93,206	3/4	80,724	3/4	68,249
8	8	8	161,065	8	150,389	8	139,712	8	129,036	8	117,910	8	105,428	8	92,946	8	80,464	8	67,989
1/4	1/4	1/4	160,843	1/4	150,166	1/4	139,490	1/4	128,813	1/4	117,650	1/4	105,167	1/4	92,686	1/4	80,204	1/4	67,730
1/2	1/2	1/2	160,620	1/2	149,944	1/2	139,267	1/2	128,591	1/2	117,390	1/2	104,907	1/2	92,426	1/2	79,944	1/2	67,470
3/4	3/4	3/4	160,398	3/4	149,721	3/4	139,045	3/4	128,368	3/4	117,130	3/4	104,647	3/4	92,166	3/4	79,684	3/4	67,211
9	9	9	160,175	9	149,499	9	138,822	9	128,146	9	116,869	9	104,387	9	91,906	9	79,424	9	66,951
1/4	1/4	1/4	159,953	1/4	149,276	1/4	138,600	1/4	127,923	1/4	116,609	1/4	104,127	1/4	91,646	1/4	79,164	1/4	66,692
1/2	1/2	1/2	159,731	1/2	149,054	1/2	138,377	1/2	127,701	1/2	116,349	1/2	103,867	1/2	91,386	1/2	78,904	1/2	66,433
3/4	3/4	3/4	159,508	3/4	148,832	3/4	138,155	3/4	127,479	3/4	116,089	3/4	103,607	3/4	91,126	3/4	78,644	3/4	66,173
10	10	10	159,286	10	148,609	10	137,933	10	127,256	10	115,829	10	103,347	10	90,866	10	78,384	10	65,914
1/4	1/4	1/4	159,063	1/4	148,387	1/4	137,710	1/4	127,034	1/4	115,569	1/4	103,087	1/4	90,606	1/4	78,124	1/4	65,654
1/2	1/2	1/2	158,841	1/2	148,164	1/2	137,488	1/2	126,811	1/2	115,309	1/2	102,827	1/2	90,346	1/2	77,864	1/2	65,395
3/4	3/4	3/4	158,618	3/4	147,942	3/4	137,265	3/4	126,589	3/4	115,049	3/4	102,567	3/4	90,086	3/4	77,604	3/4	65,135
11	11	11	158,396	11	147,719	11	137,043	11	126,366	11	114,789	11	102,307	11	89,826	11	77,344	11	64,876
1/4	1/4	1/4	158,174	1/4	147,497	1/4	136,820	1/4	126,144	1/4	114,529	1/4	102,047	1/4	89,566	1/4	77,084	1/4	64,616
1/2	1/2	1/2	157,951	1/2	147,275	1/2	136,598	1/2	125,922	1/2	114,269	1/2	101,787	1/2	89,306	1/2	76,823	1/2	64,357
3/4	3/4	3/4	157,729	3/4	147,052	3/4	136,376	3/4	125,699	3/4	114,009	3/4	101,527	3/4	89,046	3/4	76,563	3/4	64,098

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 OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "IB 1104"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	63,838	0	51,368	0	38,917	0	26,664	0	14,181	0	1,770	0		0		0		0	
1/4	63,579	1/4	51,108	1/4	38,663	1/4	26,404	1/4	13,921	1/4	1,534	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,319	1/2	50,848	1/2	38,409	1/2	26,144	1/2	13,661	1/2	1,298	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,060	3/4	50,588	3/4	38,156	3/4	25,884	3/4	13,401	3/4	1,125	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	62,800	1	50,328	1	37,902	1	25,624	1	13,141	1	951	1	1	1	1	1	1	1	1
1/4	62,541	1/4	50,068	1/4	37,648	1/4	25,364	1/4	12,881	1/4	778	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,281	1/2	49,808	1/2	37,395	1/2	25,104	1/2	12,621	1/2	604	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,022	3/4	49,548	3/4	37,141	3/4	24,844	3/4	12,361	3/4	517	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	61,763	2	49,288	2	36,887	2	24,584	2	12,101	2	430	2	2	2	2	2	2	2	2
1/4	61,503	1/4	49,029	1/4	36,634	1/4	24,324	1/4	11,841	1/4	343	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,244	1/2	48,769	1/2	36,380	1/2	24,063	1/2	11,581	1/2	257	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,984	3/4	48,509	3/4	36,126	3/4	23,803	3/4	11,321	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	60,724	3	48,249	3	35,873	3	23,543	3	11,061	3		3	3	3	3	3	3	3	3
1/4	60,465	1/4	47,989	1/4	35,619	1/4	23,283	1/4	10,801	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,205	1/2	47,729	1/2	35,365	1/2	23,023	1/2	10,541	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59,945	3/4	47,469	3/4	35,112	3/4	22,763	3/4	10,280	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	59,685	4	47,209	4	34,858	4	22,503	4	10,020	4		4	4	4	4	4	4	4	4
1/4	59,425	1/4	46,949	1/4	34,604	1/4	22,243	1/4	9,760	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	59,165	1/2	46,689	1/2	34,351	1/2	21,983	1/2	9,500	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	58,905	3/4	46,429	3/4	34,097	3/4	21,723	3/4	9,239	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	58,645	5	46,169	5	33,843	5	21,463	5	8,979	5		5	5	5	5	5	5	5	5
1/4	58,386	1/4	45,910	1/4	33,590	1/4	21,203	1/4	8,719	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,126	1/2	45,650	1/2	33,336	1/2	20,943	1/2	8,458	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,866	3/4	45,390	3/4	33,082	3/4	20,683	3/4	8,198	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	57,606	6	45,130	6	32,829	6	20,423	6	7,938	6		6	6	6	6	6	6	6	6
1/4	57,346	1/4	44,870	1/4	32,575	1/4	20,163	1/4	7,678	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,086	1/2	44,610	1/2	32,321	1/2	19,903	1/2	7,418	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,826	3/4	44,350	3/4	32,068	3/4	19,643	3/4	7,158	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	56,566	7	44,090	7	31,814	7	19,383	7	6,897	7		7	7	7	7	7	7	7	7
1/4	56,306	1/4	43,830	1/4	31,560	1/4	19,122	1/4	6,637	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,046	1/2	43,570	1/2	31,307	1/2	18,862	1/2	6,377	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,786	3/4	43,310	3/4	31,053	3/4	18,602	3/4	6,117	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	55,526	8	43,051	8	30,799	8	18,342	8	5,857	8		8	8	8	8	8	8	8	8
1/4	55,267	1/4	42,791	1/4	30,546	1/4	18,082	1/4	5,597	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,007	1/2	42,531	1/2	30,292	1/2	17,822	1/2	5,338	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,747	3/4	42,271	3/4	30,035	3/4	17,562	3/4	5,078	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	54,487	9	42,011	9	29,778	9	17,302	9	4,819	9		9	9	9	9	9	9	9	9
1/4	54,227	1/4	41,751	1/4	29,521	1/4	17,042	1/4	4,560	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,967	1/2	41,491	1/2	29,265	1/2	16,782	1/2	4,300	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,707	3/4	41,231	3/4	29,004	3/4	16,522	3/4	4,042	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	53,447	10	40,971	10	28,744	10	16,262	10	3,784	10		10	10	10	10	10	10	10	10
1/4	53,187	1/4	40,711	1/4	28,484	1/4	16,002	1/4	3,526	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,927	1/2	40,451	1/2	28,224	1/2	15,742	1/2	3,267	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,667	3/4	40,195	3/4	27,964	3/4	15,482	3/4	3,011	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	52,407	11	39,938	11	27,704	11	15,222	11	2,755	11		11	11	11	11	11	11	11	11
1/4	52,148	1/4	39,681	1/4	27,444	1/4	14,962	1/4	2,498	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,888	1/2	39,424	1/2	27,184	1/2	14,702	1/2	2,242	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,628	3/4	39,170	3/4	26,924	3/4	14,441	3/4	2,006	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: 04/10/2018 CL
CALCULATED: 04/11/2018 CL
PRINTED: 04/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2018

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



BARGE "IB 1104"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	144,627	0	133,570	0	122,513	0	111,455	0	100,398	0	89,341	0	78,284	0	67,227		
1/4	1/4	154,628	144,396	1/4	133,339	1/4	122,282	1/4	111,225	1/4	100,168	1/4	89,111	1/4	78,054	1/4	66,997		
1/2	1/2	154,532	144,166	1/2	133,109	1/2	122,052	1/2	110,995	1/2	99,938	1/2	88,881	1/2	77,823	1/2	66,766		
3/4	3/4	154,436	143,936	3/4	132,879	3/4	121,822	3/4	110,764	3/4	99,707	3/4	88,650	3/4	77,593	3/4	66,536		
1	1	154,340	143,705	1	132,648	1	121,591	1	110,534	1	99,477	1	88,420	1	77,363	1	66,306		
1/4	1/4	154,244	143,475	1/4	132,418	1/4	121,361	1/4	110,304	1/4	99,247	1/4	88,189	1/4	77,132	1/4	66,075		
1/2	1/2	154,072	143,245	1/2	132,188	1/2	121,130	1/2	110,073	1/2	99,016	1/2	87,959	1/2	76,902	1/2	65,845		
3/4	3/4	153,901	143,014	3/4	131,957	3/4	120,900	3/4	109,843	3/4	98,786	3/4	87,729	3/4	76,672	3/4	65,614		
2	2	153,730	142,784	2	131,727	2	120,670	2	109,613	2	98,555	2	87,498	2	76,441	2	65,384		
1/4	1/4	153,559	142,554	1/4	131,496	1/4	120,439	1/4	109,382	1/4	98,325	1/4	87,268	1/4	76,211	1/4	65,154		
1/2	1/2	153,340	142,323	1/2	131,266	1/2	120,209	1/2	109,152	1/2	98,095	1/2	87,038	1/2	75,981	1/2	64,923		
3/4	3/4	153,122	142,093	3/4	131,036	3/4	119,979	3/4	108,922	3/4	97,864	3/4	86,807	3/4	75,750	3/4	64,693		
3	3	152,903	141,863	3	130,805	3	119,748	3	108,691	3	97,634	3	86,577	3	75,520	3	64,463		
1/4	1/4	152,685	141,632	1/4	130,575	1/4	119,518	1/4	108,461	1/4	97,404	1/4	86,347	1/4	75,289	1/4	64,232		
1/2	1/2	152,455	141,402	1/2	130,345	1/2	119,288	1/2	108,230	1/2	97,173	1/2	86,116	1/2	75,059	1/2	64,002		
3/4	3/4	152,226	141,171	3/4	130,114	3/4	119,057	3/4	108,000	3/4	96,943	3/4	85,886	3/4	74,829	3/4	63,772		
4	4	151,997	140,941	4	129,884	4	118,827	4	107,770	4	96,713	4	85,656	4	74,598	4	63,541		
1/4	1/4	151,767	140,711	1/4	129,654	1/4	118,597	1/4	107,539	1/4	96,482	1/4	85,425	1/4	74,368	1/4	63,311		
1/2	1/2	151,537	140,480	1/2	129,423	1/2	118,366	1/2	107,309	1/2	96,252	1/2	85,195	1/2	74,138	1/2	63,081		
3/4	3/4	151,307	140,250	3/4	129,193	3/4	118,136	3/4	107,079	3/4	96,022	3/4	84,964	3/4	73,907	3/4	62,850		
5	5	151,077	140,020	5	128,963	5	117,905	5	106,848	5	95,791	5	84,734	5	73,677	5	62,620		
1/4	1/4	150,846	139,789	1/4	128,732	1/4	117,675	1/4	106,618	1/4	95,561	1/4	84,504	1/4	73,447	1/4	62,390		
1/2	1/2	150,616	139,559	1/2	128,502	1/2	117,445	1/2	106,388	1/2	95,330	1/2	84,273	1/2	73,216	1/2	62,159		
3/4	3/4	150,386	139,329	3/4	128,271	3/4	117,214	3/4	106,157	3/4	95,100	3/4	84,043	3/4	72,986	3/4	61,929		
6	6	150,155	139,098	6	128,041	6	116,984	6	105,927	6	94,870	6	83,813	6	72,756	6	61,698		
1/4	1/4	149,925	138,868	1/4	127,811	1/4	116,754	1/4	105,697	1/4	94,639	1/4	83,582	1/4	72,525	1/4	61,468		
1/2	1/2	149,695	138,638	1/2	127,580	1/2	116,523	1/2	105,466	1/2	94,409	1/2	83,352	1/2	72,295	1/2	61,238		
3/4	3/4	149,464	138,407	3/4	127,350	3/4	116,293	3/4	105,236	3/4	94,179	3/4	83,122	3/4	72,064	3/4	61,007		
7	7	149,234	138,177	7	127,120	7	116,063	7	105,005	7	93,948	7	82,891	7	71,834	7	60,777		
1/4	1/4	149,004	137,946	1/4	126,889	1/4	115,832	1/4	104,775	1/4	93,718	1/4	82,661	1/4	71,604	1/4	60,547		
1/2	1/2	148,773	137,716	1/2	126,659	1/2	115,602	1/2	104,545	1/2	93,488	1/2	82,431	1/2	71,373	1/2	60,316		
3/4	3/4	148,543	137,486	3/4	126,429	3/4	115,372	3/4	104,314	3/4	93,257	3/4	82,200	3/4	71,143	3/4	60,086		
8	8	148,313	137,255	8	126,198	8	115,141	8	104,084	8	93,027	8	81,970	8	70,913	8	59,856		
1/4	1/4	148,082	137,025	1/4	125,968	1/4	114,911	1/4	103,854	1/4	92,797	1/4	81,739	1/4	70,682	1/4	59,625		
1/2	1/2	147,852	136,795	1/2	125,738	1/2	114,680	1/2	103,623	1/2	92,566	1/2	81,509	1/2	70,452	1/2	59,395		
3/4	3/4	147,621	136,564	3/4	125,507	3/4	114,450	3/4	103,393	3/4	92,336	3/4	81,279	3/4	70,222	3/4	59,165		
9	9	147,391	136,334	9	125,277	9	114,220	9	103,163	9	92,106	9	81,048	9	69,991	9	58,934		
1/4	1/4	147,161	136,104	1/4	125,046	1/4	113,989	1/4	102,932	1/4	91,875	1/4	80,818	1/4	69,761	1/4	58,704		
1/2	1/2	146,930	135,873	1/2	124,816	1/2	113,759	1/2	102,702	1/2	91,645	1/2	80,588	1/2	69,531	1/2	58,473		
3/4	3/4	146,700	135,643	3/4	124,586	3/4	113,529	3/4	102,472	3/4	91,414	3/4	80,357	3/4	69,300	3/4	58,243		
10	10	146,470	135,413	10	124,355	10	113,298	10	102,241	10	91,184	10	80,127	10	69,070	10	58,013		
1/4	1/4	146,239	135,182	1/4	124,125	1/4	113,068	1/4	102,011	1/4	90,954	1/4	79,897	1/4	68,839	1/4	57,782		
1/2	1/2	146,009	134,952	1/2	123,895	1/2	112,838	1/2	101,780	1/2	90,723	1/2	79,666	1/2	68,609	1/2	57,552		
3/4	3/4	145,779	134,721	3/4	123,664	3/4	112,607	3/4	101,550	3/4	90,493	3/4	79,436	3/4	68,379	3/4	57,322		
11	11	145,548	134,491	11	123,434	11	112,377	11	101,320	11	90,263	11	79,206	11	68,148	11	57,091		
1/4	1/4	145,318	134,261	1/4	123,204	1/4	112,147	1/4	101,089	1/4	90,032	1/4	78,975	1/4	67,918	1/4	56,861		
1/2	1/2	145,088	134,030	1/2	122,973	1/2	111,916	1/2	100,859	1/2	89,802	1/2	78,745	1/2	67,688	1/2	56,631		
3/4	3/4	144,857	133,800	3/4	122,743	3/4	111,686	3/4	100,629	3/4	89,572	3/4	78,514	3/4	67,457	3/4	56,400		

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 OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "IB 1104"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	56,170	0	45,113	0	34,087	0	23,250	0	12,194	0	1,232	0		0		0		0	
1/4	55,940	1/4	44,882	1/4	33,863	1/4	23,020	1/4	11,963	1/4	1,024	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,709	1/2	44,652	1/2	33,639	1/2	22,790	1/2	11,733	1/2	870	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,479	3/4	44,422	3/4	33,415	3/4	22,559	3/4	11,503	3/4	717	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,248	1	44,191	1	33,191	1	22,329	1	11,272	1	564	1	1	1	1	1	1	1	1
1/4	55,018	1/4	43,961	1/4	32,966	1/4	22,099	1/4	11,042	1/4	410	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,788	1/2	43,731	1/2	32,742	1/2	21,868	1/2	10,812	1/2	333	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,557	3/4	43,500	3/4	32,518	3/4	21,638	3/4	10,581	3/4	257	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,327	2	43,270	2	32,294	2	21,408	2	10,351	2	180	2	2	2	2	2	2	2	2
1/4	54,097	1/4	43,040	1/4	32,070	1/4	21,177	1/4	10,121	1/4	103	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,866	1/2	42,809	1/2	31,846	1/2	20,947	1/2	9,890	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,636	3/4	42,579	3/4	31,622	3/4	20,717	3/4	9,660	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,406	3	42,348	3	31,398	3	20,486	3	9,430	3		3	3	3	3	3	3	3	3
1/4	53,175	1/4	42,118	1/4	31,174	1/4	20,256	1/4	9,199	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,945	1/2	41,888	1/2	30,950	1/2	20,026	1/2	8,969	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,715	3/4	41,657	3/4	30,726	3/4	19,795	3/4	8,739	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	52,484	4	41,427	4	30,502	4	19,565	4	8,508	4		4	4	4	4	4	4	4	4
1/4	52,254	1/4	41,197	1/4	30,278	1/4	19,335	1/4	8,278	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,023	1/2	40,966	1/2	30,054	1/2	19,104	1/2	8,048	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,793	3/4	40,736	3/4	29,830	3/4	18,874	3/4	7,817	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,563	5	40,506	5	29,606	5	18,644	5	7,587	5		5	5	5	5	5	5	5	5
1/4	51,332	1/4	40,275	1/4	29,382	1/4	18,413	1/4	7,356	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,102	1/2	40,045	1/2	29,158	1/2	18,183	1/2	7,126	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,872	3/4	39,815	3/4	28,934	3/4	17,952	3/4	6,896	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	50,641	6	39,584	6	28,710	6	17,722	6	6,666	6		6	6	6	6	6	6	6	6
1/4	50,411	1/4	39,354	1/4	28,485	1/4	17,492	1/4	6,435	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,181	1/2	39,123	1/2	28,261	1/2	17,261	1/2	6,205	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,950	3/4	38,893	3/4	28,037	3/4	17,031	3/4	5,975	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	49,720	7	38,663	7	27,813	7	16,801	7	5,745	7		7	7	7	7	7	7	7	7
1/4	49,490	1/4	38,432	1/4	27,589	1/4	16,570	1/4	5,514	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,259	1/2	38,202	1/2	27,365	1/2	16,340	1/2	5,285	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,029	3/4	37,972	3/4	27,141	3/4	16,110	3/4	5,055	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	48,798	8	37,741	8	26,917	8	15,879	8	4,825	8		8	8	8	8	8	8	8	8
1/4	48,568	1/4	37,511	1/4	26,693	1/4	15,649	1/4	4,595	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,338	1/2	37,281	1/2	26,466	1/2	15,419	1/2	4,366	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,107	3/4	37,050	3/4	26,239	3/4	15,188	3/4	4,136	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	47,877	9	36,820	9	26,011	9	14,958	9	3,907	9		9	9	9	9	9	9	9	9
1/4	47,647	1/4	36,590	1/4	25,784	1/4	14,728	1/4	3,678	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,416	1/2	36,359	1/2	25,554	1/2	14,497	1/2	3,450	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,186	3/4	36,129	3/4	25,324	3/4	14,267	3/4	3,221	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	46,956	10	35,898	10	25,093	10	14,037	10	2,993	10		10	10	10	10	10	10	10	10
1/4	46,725	1/4	35,668	1/4	24,863	1/4	13,806	1/4	2,765	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,495	1/2	35,441	1/2	24,633	1/2	13,576	1/2	2,538	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,265	3/4	35,214	3/4	24,402	3/4	13,346	3/4	2,311	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	46,034	11	34,986	11	24,172	11	13,115	11	2,085	11		11	11	11	11	11	11	11	11
1/4	45,804	1/4	34,759	1/4	23,941	1/4	12,885	1/4	1,858	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,573	1/2	34,535	1/2	23,711	1/2	12,654	1/2	1,650	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,343	3/4	34,311	3/4	23,481	3/4	12,424	3/4	1,441	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.

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ALL PRIOR TO 04/2018

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BARGE "IB 1104"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

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	143,988	0	133,033	0	122,077	0	111,121	0	100,166	0	89,210	0	78,254	0	67,299		
1/4		1/4	143,760	1/4	142,847	1/4	132,804	1/4	121,849	1/4	110,893	1/4	99,937	1/4	88,982	1/4	78,026	1/4	67,070
1/2		1/2	143,532	1/2	142,619	1/2	132,576	1/2	121,620	1/2	110,665	1/2	99,709	1/2	88,753	1/2	77,798	1/2	66,842
3/4		3/4	153,441	3/4	143,303	3/4	132,348	3/4	121,392	3/4	110,436	3/4	99,481	3/4	88,525	3/4	77,570	3/4	66,614
1	1	1	153,346	1	143,075	1	132,120	1	121,164	1	110,208	1	99,253	1	88,297	1	77,341	1	66,386
1/4		1/4	153,250	1/4	142,847	1/4	131,891	1/4	120,936	1/4	109,980	1/4	99,024	1/4	88,069	1/4	77,113	1/4	66,157
1/2		1/2	153,155	1/2	142,619	1/2	131,663	1/2	120,707	1/2	109,752	1/2	98,796	1/2	87,840	1/2	76,885	1/2	65,929
3/4		3/4	153,060	3/4	142,390	3/4	131,435	3/4	120,479	3/4	109,524	3/4	98,568	3/4	87,612	3/4	76,657	3/4	65,701
2	2	2	152,891	2	142,162	2	131,207	2	120,251	2	109,295	2	98,340	2	87,384	2	76,428	2	65,473
1/4		1/4	152,721	1/4	141,934	1/4	130,978	1/4	120,023	1/4	109,067	1/4	98,111	1/4	87,156	1/4	76,200	1/4	65,244
1/2		1/2	152,551	1/2	141,706	1/2	130,750	1/2	119,794	1/2	108,839	1/2	97,883	1/2	86,927	1/2	75,972	1/2	65,016
3/4		3/4	152,382	3/4	141,477	3/4	130,522	3/4	119,566	3/4	108,611	3/4	97,655	3/4	86,699	3/4	75,744	3/4	64,788
3	3	3	152,165	3	141,249	3	130,294	3	119,338	3	108,382	3	97,427	3	86,471	3	75,515	3	64,560
1/4		1/4	151,949	1/4	141,021	1/4	130,065	1/4	119,110	1/4	108,154	1/4	97,198	1/4	86,243	1/4	75,287	1/4	64,331
1/2		1/2	151,732	1/2	140,793	1/2	129,837	1/2	118,881	1/2	107,926	1/2	96,970	1/2	86,015	1/2	75,059	1/2	64,103
3/4		3/4	151,516	3/4	140,565	3/4	129,609	3/4	118,653	3/4	107,698	3/4	96,742	3/4	85,788	3/4	74,831	3/4	63,875
4	4	4	151,288	4	140,336	4	129,381	4	118,425	4	107,469	4	96,514	4	85,558	4	74,602	4	63,647
1/4		1/4	151,061	1/4	140,108	1/4	129,152	1/4	118,197	1/4	107,241	1/4	96,285	1/4	85,330	1/4	74,374	1/4	63,418
1/2		1/2	150,834	1/2	139,880	1/2	128,924	1/2	117,968	1/2	107,013	1/2	96,057	1/2	85,102	1/2	74,146	1/2	63,190
3/4		3/4	150,606	3/4	139,652	3/4	128,696	3/4	117,740	3/4	106,785	3/4	95,829	3/4	84,873	3/4	73,918	3/4	62,962
5	5	5	150,378	5	139,423	5	128,468	5	117,512	5	106,556	5	95,601	5	84,645	5	73,689	5	62,734
1/4		1/4	150,150	1/4	139,195	1/4	128,239	1/4	117,284	1/4	106,328	1/4	95,372	1/4	84,417	1/4	73,461	1/4	62,506
1/2		1/2	149,922	1/2	138,967	1/2	128,011	1/2	117,056	1/2	106,100	1/2	95,144	1/2	84,189	1/2	73,233	1/2	62,277
3/4		3/4	149,694	3/4	138,739	3/4	127,783	3/4	116,827	3/4	105,872	3/4	94,916	3/4	83,960	3/4	73,005	3/4	62,049
6	6	6	149,466	6	138,510	6	127,555	6	116,599	6	105,643	6	94,688	6	83,732	6	72,776	6	61,821
1/4		1/4	149,238	1/4	138,282	1/4	127,326	1/4	116,371	1/4	105,415	1/4	94,459	1/4	83,504	1/4	72,548	1/4	61,593
1/2		1/2	149,009	1/2	138,054	1/2	127,098	1/2	116,143	1/2	105,187	1/2	94,231	1/2	83,276	1/2	72,320	1/2	61,364
3/4		3/4	148,781	3/4	137,826	3/4	126,870	3/4	115,914	3/4	104,959	3/4	94,003	3/4	83,047	3/4	72,092	3/4	61,136
7	7	7	148,553	7	137,597	7	126,642	7	115,686	7	104,730	7	93,775	7	82,819	7	71,863	7	60,908
1/4		1/4	148,325	1/4	137,369	1/4	126,413	1/4	115,458	1/4	104,502	1/4	93,547	1/4	82,591	1/4	71,635	1/4	60,680
1/2		1/2	148,097	1/2	137,141	1/2	126,185	1/2	115,230	1/2	104,274	1/2	93,318	1/2	82,363	1/2	71,407	1/2	60,451
3/4		3/4	147,868	3/4	136,913	3/4	125,957	3/4	115,001	3/4	104,046	3/4	93,090	3/4	82,134	3/4	71,179	3/4	60,223
8	8	8	147,640	8	136,684	8	125,729	8	114,773	8	103,817	8	92,862	8	81,906	8	70,950	8	59,995
1/4		1/4	147,412	1/4	136,456	1/4	125,500	1/4	114,545	1/4	103,589	1/4	92,634	1/4	81,678	1/4	70,722	1/4	59,767
1/2		1/2	147,184	1/2	136,228	1/2	125,272	1/2	114,317	1/2	103,361	1/2	92,405	1/2	81,450	1/2	70,494	1/2	59,538
3/4		3/4	146,955	3/4	136,000	3/4	125,044	3/4	114,088	3/4	103,133	3/4	92,177	3/4	81,221	3/4	70,266	3/4	59,310
9	9	9	146,727	9	135,771	9	124,816	9	113,860	9	102,904	9	91,949	9	80,993	9	70,038	9	59,082
1/4		1/4	146,499	1/4	135,543	1/4	124,588	1/4	113,632	1/4	102,676	1/4	91,721	1/4	80,765	1/4	69,809	1/4	58,854
1/2		1/2	146,271	1/2	135,315	1/2	124,359	1/2	113,404	1/2	102,448	1/2	91,492	1/2	80,537	1/2	69,581	1/2	58,625
3/4		3/4	146,042	3/4	135,087	3/4	124,131	3/4	113,175	3/4	102,220	3/4	91,264	3/4	80,308	3/4	69,353	3/4	58,397
10	10	10	145,814	10	134,858	10	123,903	10	112,947	10	101,991	10	91,036	10	80,080	10	69,125	10	58,169
1/4		1/4	145,586	1/4	134,630	1/4	123,675	1/4	112,719	1/4	101,763	1/4	90,808	1/4	79,852	1/4	68,896	1/4	57,941
1/2		1/2	145,358	1/2	134,402	1/2	123,446	1/2	112,491	1/2	101,535	1/2	90,579	1/2	79,624	1/2	68,668	1/2	57,712
3/4		3/4	145,129	3/4	134,174	3/4	123,218	3/4	112,262	3/4	101,307	3/4	90,351	3/4	79,395	3/4	68,440	3/4	57,484
11	11	11	144,901	11	133,945	11	122,990	11	112,034	11	101,079	11	90,123	11	79,167	11	68,212	11	57,256
1/4		1/4	144,673	1/4	133,717	1/4	122,762	1/4	111,806	1/4	100,850	1/4	89,895	1/4	78,939	1/4	67,983	1/4	57,028
1/2		1/2	144,445	1/2	133,489	1/2	122,533	1/2	111,578	1/2	100,622	1/2	89,666	1/2	78,711	1/2	67,755	1/2	56,799
3/4		3/4	144,216	3/4	133,261	3/4	122,305	3/4	111,349	3/4	100,394	3/4	89,438	3/4	78,482	3/4	67,527	3/4	56,571

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 OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

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



BARGE "IB 1104"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	56,343	0	45,387	0	34,433	0	23,494	0	12,539	0	1,635	0		0		0		0	
1/4	56,115	1/4	45,159	1/4	34,205	1/4	23,266	1/4	12,310	1/4	1,428	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,886	1/2	44,931	1/2	33,977	1/2	23,037	1/2	12,082	1/2	1,221	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,658	3/4	44,703	3/4	33,749	3/4	22,809	3/4	11,854	3/4	1,015	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,430	1	44,474	1	33,521	1	22,581	1	11,626	1	863	1	1	1	1	1	1	1	1
1/4	55,202	1/4	44,246	1/4	33,294	1/4	22,353	1/4	11,397	1/4	711	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,974	1/2	44,018	1/2	33,066	1/2	22,124	1/2	11,169	1/2	559	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,745	3/4	43,790	3/4	32,838	3/4	21,896	3/4	10,941	3/4	407	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,517	2	43,561	2	32,610	2	21,668	2	10,713	2	331	2	2	2	2	2	2	2	2
1/4	54,289	1/4	43,333	1/4	32,382	1/4	21,440	1/4	10,484	1/4	254	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,061	1/2	43,105	1/2	32,155	1/2	21,211	1/2	10,256	1/2	178	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,832	3/4	42,877	3/4	31,927	3/4	20,983	3/4	10,028	3/4	102	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,604	3	42,648	3	31,699	3	20,755	3	9,800	3		3	3	3	3	3	3	3	3
1/4	53,376	1/4	42,420	1/4	31,471	1/4	20,527	1/4	9,572	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,148	1/2	42,192	1/2	31,243	1/2	20,299	1/2	9,343	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,919	3/4	41,964	3/4	31,016	3/4	20,070	3/4	9,115	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	52,691	4	41,735	4	30,788	4	19,842	4	8,887	4		4	4	4	4	4	4	4	4
1/4	52,463	1/4	41,507	1/4	30,560	1/4	19,614	1/4	8,659	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,235	1/2	41,279	1/2	30,332	1/2	19,386	1/2	8,430	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,006	3/4	41,051	3/4	30,105	3/4	19,157	3/4	8,202	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,778	5	40,822	5	29,877	5	18,929	5	7,974	5		5	5	5	5	5	5	5	5
1/4	51,550	1/4	40,594	1/4	29,649	1/4	18,701	1/4	7,746	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,322	1/2	40,366	1/2	29,421	1/2	18,473	1/2	7,517	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,093	3/4	40,138	3/4	29,193	3/4	18,244	3/4	7,289	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	50,865	6	39,909	6	28,966	6	18,016	6	7,061	6		6	6	6	6	6	6	6	6
1/4	50,637	1/4	39,681	1/4	28,738	1/4	17,788	1/4	6,833	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,409	1/2	39,453	1/2	28,510	1/2	17,560	1/2	6,605	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,180	3/4	39,225	3/4	28,282	3/4	17,331	3/4	6,376	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	49,952	7	38,997	7	28,054	7	17,103	7	6,148	7		7	7	7	7	7	7	7	7
1/4	49,724	1/4	38,768	1/4	27,827	1/4	16,875	1/4	5,920	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,496	1/2	38,540	1/2	27,599	1/2	16,647	1/2	5,692	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,267	3/4	38,312	3/4	27,371	3/4	16,419	3/4	5,464	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	49,039	8	38,084	8	27,143	8	16,190	8	5,236	8		8	8	8	8	8	8	8	8
1/4	48,811	1/4	37,855	1/4	26,916	1/4	15,962	1/4	5,009	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,583	1/2	37,627	1/2	26,688	1/2	15,734	1/2	4,781	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,354	3/4	37,399	3/4	26,460	3/4	15,506	3/4	4,553	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	48,126	9	37,171	9	26,232	9	15,277	9	4,326	9		9	9	9	9	9	9	9	9
1/4	47,898	1/4	36,942	1/4	26,004	1/4	15,049	1/4	4,099	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,670	1/2	36,714	1/2	25,776	1/2	14,821	1/2	3,872	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,441	3/4	36,486	3/4	25,548	3/4	14,593	3/4	3,644	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	47,213	10	36,258	10	25,320	10	14,364	10	3,418	10		10	10	10	10	10	10	10	10
1/4	46,985	1/4	36,029	1/4	25,091	1/4	14,136	1/4	3,192	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,757	1/2	35,801	1/2	24,863	1/2	13,908	1/2	2,966	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,529	3/4	35,573	3/4	24,635	3/4	13,680	3/4	2,740	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	46,300	11	35,345	11	24,407	11	13,452	11	2,515	11		11	11	11	11	11	11	11	11
1/4	46,072	1/4	35,117	1/4	24,178	1/4	13,223	1/4	2,290	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,844	1/2	34,889	1/2	23,950	1/2	12,995	1/2	2,066	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,616	3/4	34,661	3/4	23,722	3/4	12,767	3/4	1,841	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.

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PRINTED: 04/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2018

PRECISION MEASUREMENT
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