



BARGE "CBC 1409"

INNAGE 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	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
2 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
3 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	00-1/4	- 00-1/4

(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 1 CENTER IS - 00-3/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/4"

LENGTH BETWEEN DRAFT MARKS: 178'-06"

February 12, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1409"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	39	0	8,714	0	20,337	0	31,777	0	43,257	0	54,852	0	66,447	0	78,019	0	89,592	0	101,192
1/4	60	1/4	8,956	1/4	20,579	1/4	32,011	1/4	43,498	1/4	55,093	1/4	66,688	1/4	78,259	1/4	89,834	1/4	101,433
1/2	80	1/2	9,198	1/2	20,821	1/2	32,245	1/2	43,740	1/2	55,335	1/2	66,930	1/2	78,499	1/2	90,076	1/2	101,675
3/4	100	3/4	9,440	3/4	21,063	3/4	32,480	3/4	43,982	3/4	55,577	3/4	67,172	3/4	78,739	3/4	90,317	3/4	101,917
1	120	1	9,683	1	21,305	1	32,714	1	44,223	1	55,818	1	67,413	1	78,979	1	90,559	1	102,158
1/4	181	1/4	9,925	1/4	21,548	1/4	32,949	1/4	44,465	1/4	56,060	1/4	67,655	1/4	79,220	1/4	90,801	1/4	102,400
1/2	241	1/2	10,167	1/2	21,790	1/2	33,183	1/2	44,706	1/2	56,301	1/2	67,896	1/2	79,460	1/2	91,042	1/2	102,642
3/4	302	3/4	10,409	3/4	22,032	3/4	33,417	3/4	44,948	3/4	56,543	3/4	68,138	3/4	79,700	3/4	91,284	3/4	102,883
2	362	2	10,651	2	22,274	2	33,652	2	45,189	2	56,784	2	68,379	2	79,940	2	91,526	2	103,125
1/4	463	1/4	10,893	1/4	22,516	1/4	33,886	1/4	45,431	1/4	57,026	1/4	68,621	1/4	80,181	1/4	91,767	1/4	103,367
1/2	564	1/2	11,135	1/2	22,758	1/2	34,121	1/2	45,672	1/2	57,267	1/2	68,863	1/2	80,421	1/2	92,009	1/2	103,608
3/4	665	3/4	11,378	3/4	23,001	3/4	34,355	3/4	45,914	3/4	57,509	3/4	69,104	3/4	80,661	3/4	92,251	3/4	103,850
3	766	3	11,620	3	23,243	3	34,589	3	46,156	3	57,751	3	69,346	3	80,901	3	92,492	3	104,092
1/4	907	1/4	11,862	1/4	23,485	1/4	34,824	1/4	46,397	1/4	57,992	1/4	69,587	1/4	81,141	1/4	92,734	1/4	104,333
1/2	1,048	1/2	12,104	1/2	23,727	1/2	35,058	1/2	46,639	1/2	58,234	1/2	69,829	1/2	81,382	1/2	92,975	1/2	104,575
3/4	1,189	3/4	12,346	3/4	23,969	3/4	35,292	3/4	46,880	3/4	58,475	3/4	70,070	3/4	81,622	3/4	93,217	3/4	104,817
4	1,331	4	12,588	4	24,211	4	35,527	4	47,122	4	58,717	4	70,312	4	81,862	4	93,459	4	105,058
1/4	1,512	1/4	12,830	1/4	24,453	1/4	35,768	1/4	47,363	1/4	58,958	1/4	70,553	1/4	82,103	1/4	93,700	1/4	105,300
1/2	1,694	1/2	13,073	1/2	24,696	1/2	36,010	1/2	47,605	1/2	59,200	1/2	70,795	1/2	82,344	1/2	93,942	1/2	105,542
3/4	1,875	3/4	13,315	3/4	24,938	3/4	36,252	3/4	47,847	3/4	59,442	3/4	71,037	3/4	82,585	3/4	94,184	3/4	105,783
5	2,057	5	13,557	5	25,180	5	36,493	5	48,088	5	59,683	5	71,278	5	82,826	5	94,425	5	106,025
1/4	2,278	1/4	13,799	1/4	25,422	1/4	36,735	1/4	48,330	1/4	59,925	1/4	71,520	1/4	83,067	1/4	94,667	1/4	106,267
1/2	2,500	1/2	14,041	1/2	25,664	1/2	36,976	1/2	48,571	1/2	60,166	1/2	71,761	1/2	83,309	1/2	94,909	1/2	106,508
3/4	2,721	3/4	14,283	3/4	25,906	3/4	37,218	3/4	48,813	3/4	60,408	3/4	72,003	3/4	83,551	3/4	95,150	3/4	106,750
6	2,942	6	14,525	6	26,148	6	37,459	6	49,054	6	60,649	6	72,244	6	83,792	6	95,392	6	106,992
1/4	3,179	1/4	14,768	1/4	26,383	1/4	37,701	1/4	49,296	1/4	60,891	1/4	72,485	1/4	84,034	1/4	95,634	1/4	107,233
1/2	3,417	1/2	15,010	1/2	26,618	1/2	37,942	1/2	49,537	1/2	61,132	1/2	72,726	1/2	84,276	1/2	95,875	1/2	107,475
3/4	3,654	3/4	15,252	3/4	26,853	3/4	38,184	3/4	49,779	3/4	61,374	3/4	72,967	3/4	84,517	3/4	96,117	3/4	107,717
7	3,891	7	15,494	7	27,087	7	38,426	7	50,021	7	61,616	7	73,208	7	84,759	7	96,359	7	107,958
1/4	4,131	1/4	15,736	1/4	27,322	1/4	38,667	1/4	50,262	1/4	61,857	1/4	73,449	1/4	85,001	1/4	96,600	1/4	108,200
1/2	4,370	1/2	15,978	1/2	27,557	1/2	38,909	1/2	50,504	1/2	62,099	1/2	73,690	1/2	85,242	1/2	96,842	1/2	108,441
3/4	4,610	3/4	16,220	3/4	27,792	3/4	39,150	3/4	50,745	3/4	62,340	3/4	73,931	3/4	85,484	3/4	97,084	3/4	108,683
8	4,849	8	16,463	8	28,027	8	39,392	8	50,987	8	62,582	8	74,172	8	85,726	8	97,325	8	108,925
1/4	5,090	1/4	16,705	1/4	28,261	1/4	39,633	1/4	51,228	1/4	62,823	1/4	74,413	1/4	85,967	1/4	97,567	1/4	109,166
1/2	5,331	1/2	16,947	1/2	28,495	1/2	39,875	1/2	51,470	1/2	63,065	1/2	74,654	1/2	86,209	1/2	97,809	1/2	109,408
3/4	5,571	3/4	17,189	3/4	28,730	3/4	40,117	3/4	51,712	3/4	63,307	3/4	74,895	3/4	86,451	3/4	98,050	3/4	109,650
9	5,812	9	17,431	9	28,964	9	40,358	9	51,953	9	63,548	9	75,136	9	86,692	9	98,292	9	109,891
1/4	6,053	1/4	17,673	1/4	29,198	1/4	40,600	1/4	52,195	1/4	63,790	1/4	75,376	1/4	86,934	1/4	98,534	1/4	110,133
1/2	6,295	1/2	17,915	1/2	29,433	1/2	40,841	1/2	52,436	1/2	64,031	1/2	75,617	1/2	87,176	1/2	98,775	1/2	110,375
3/4	6,536	3/4	18,158	3/4	29,667	3/4	41,083	3/4	52,678	3/4	64,273	3/4	75,857	3/4	87,417	3/4	99,017	3/4	110,616
10	6,778	10	18,400	10	29,902	10	41,324	10	52,919	10	64,514	10	76,097	10	87,659	10	99,259	10	110,858
1/4	7,020	1/4	18,642	1/4	30,136	1/4	41,566	1/4	53,161	1/4	64,756	1/4	76,337	1/4	87,901	1/4	99,500	1/4	111,100
1/2	7,262	1/2	18,884	1/2	30,370	1/2	41,807	1/2	53,402	1/2	64,998	1/2	76,577	1/2	88,142	1/2	99,742	1/2	111,341
3/4	7,503	3/4	19,126	3/4	30,605	3/4	42,049	3/4	53,644	3/4	65,239	3/4	76,818	3/4	88,384	3/4	99,984	3/4	111,583
11	7,745	11	19,368	11	30,839	11	42,291	11	53,886	11	65,481	11	77,058	11	88,626	11	100,225	11	111,825
1/4	7,988	1/4	19,610	1/4	31,074	1/4	42,532	1/4	54,127	1/4	65,722	1/4	77,298	1/4	88,867	1/4	100,467	1/4	112,066
1/2	8,230	1/2	19,853	1/2	31,308	1/2	42,774	1/2	54,369	1/2	65,964	1/2	77,538	1/2	89,109	1/2	100,708	1/2	112,308
3/4	8,472	3/4	20,095	3/4	31,542	3/4	43,015	3/4	54,610	3/4	66,205	3/4	77,778	3/4	89,351	3/4	100,950	3/4	112,550

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "CBC 1409"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	112,791	0	122,338	0	130,467	0	138,596	0	146,726	0		0		0		0		0	
1/4	113,032	1/4	122,507	1/4	130,636	1/4	138,766	1/4	146,895	1/4		1/4		1/4		1/4		1/4	
1/2	113,273	1/2	122,676	1/2	130,806	1/2	138,935	1/2	147,065	1/2		1/2		1/2		1/2		1/2	
3/4	113,515	3/4	122,846	3/4	130,975	3/4	139,105	3/4	147,234	3/4		3/4		3/4		3/4		3/4	
1	113,756	1	123,015	1	131,144	1	139,274	1	147,403	1		1		1		1		1	
1/4	113,997	1/4	123,184	1/4	131,314	1/4	139,443	1/4	147,573	1/4		1/4		1/4		1/4		1/4	
1/2	114,238	1/2	123,354	1/2	131,483	1/2	139,613	1/2	147,742	1/2		1/2		1/2		1/2		1/2	
3/4	114,479	3/4	123,523	3/4	131,653	3/4	139,782	3/4	147,911	3/4		3/4		3/4		3/4		3/4	
2	114,720	2	123,692	2	131,822	2	139,951	2	148,081	2		2		2		2		2	
1/4	114,961	1/4	123,862	1/4	131,991	1/4	140,121	1/4	148,250	1/4		1/4		1/4		1/4		1/4	
1/2	115,202	1/2	124,031	1/2	132,161	1/2	140,290	1/2	148,419	1/2		1/2		1/2		1/2		1/2	
3/4	115,443	3/4	124,201	3/4	132,330	3/4	140,459	3/4	148,589	3/4		3/4		3/4		3/4		3/4	
3	115,684	3	124,370	3	132,499	3	140,629	3	148,758	3		3		3		3		3	
1/4	115,926	1/4	124,539	1/4	132,669	1/4	140,798	1/4	148,980	1/4		1/4		1/4		1/4		1/4	
1/2	116,167	1/2	124,709	1/2	132,838	1/2	140,968	1/2	149,202	1/2		1/2		1/2		1/2		1/2	
3/4	116,408	3/4	124,878	3/4	133,007	3/4	141,137	3/4	149,424	3/4		3/4		3/4		3/4		3/4	
4	116,649	4	125,047	4	133,177	4	141,306	4	149,646	4		4		4		4		4	
1/4	116,890	1/4	125,217	1/4	133,346	1/4	141,476	1/4	149,828	1/4		1/4		1/4		1/4		1/4	
1/2	117,131	1/2	125,386	1/2	133,516	1/2	141,645	1/2	150,009	1/2		1/2		1/2		1/2		1/2	
3/4	117,372	3/4	125,555	3/4	133,685	3/4	141,814	3/4	150,191	3/4		3/4		3/4		3/4		3/4	
5	117,613	5	125,725	5	133,854	5	141,984	5	150,373	5		5		5		5		5	
1/4	117,782	1/4	125,894	1/4	134,024	1/4	142,153	1/4	150,514	1/4		1/4		1/4		1/4		1/4	
1/2	117,950	1/2	126,064	1/2	134,193	1/2	142,322	1/2	150,655	1/2		1/2		1/2		1/2		1/2	
3/4	118,118	3/4	126,233	3/4	134,362	3/4	142,492	3/4	150,796	3/4		3/4		3/4		3/4		3/4	
6	118,286	6	126,402	6	134,532	6	142,661	6	150,938	6		6		6		6		6	
1/4	118,455	1/4	126,572	1/4	134,701	1/4	142,831	1/4	151,038	1/4		1/4		1/4		1/4		1/4	
1/2	118,624	1/2	126,741	1/2	134,870	1/2	143,000	1/2	151,139	1/2		1/2		1/2		1/2		1/2	
3/4	118,793	3/4	126,910	3/4	135,040	3/4	143,169	3/4	151,240	3/4		3/4		3/4		3/4		3/4	
7	118,962	7	127,080	7	135,209	7	143,339	7	151,341	7		7		7		7		7	
1/4	119,130	1/4	127,249	1/4	135,379	1/4	143,508	1/4	151,402	1/4		1/4		1/4		1/4		1/4	
1/2	119,299	1/2	127,418	1/2	135,548	1/2	143,677	1/2	151,462	1/2		1/2		1/2		1/2		1/2	
3/4	119,468	3/4	127,588	3/4	135,717	3/4	143,847	3/4	151,523	3/4		3/4		3/4		3/4		3/4	
8	119,637	8	127,757	8	135,887	8	144,016	8	151,583	8		8		8		8		8	
1/4	119,806	1/4	127,927	1/4	136,056	1/4	144,185	1/4	151,604	1/4		1/4		1/4		1/4		1/4	
1/2	119,974	1/2	128,096	1/2	136,225	1/2	144,355	1/2	151,624	1/2		1/2		1/2		1/2		1/2	
3/4	120,143	3/4	128,265	3/4	136,395	3/4	144,524	3/4		3/4		3/4		3/4		3/4		3/4	
9	120,312	9	128,435	9	136,564	9	144,693	9		9		9		9		9		9	
1/4	120,481	1/4	128,604	1/4	136,733	1/4	144,863	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,650	1/2	128,773	1/2	136,903	1/2	145,032	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	120,818	3/4	128,943	3/4	137,072	3/4	145,202	3/4		3/4		3/4		3/4		3/4		3/4	
10	120,987	10	129,112	10	137,242	10	145,371	10		10		10		10		10		10	
1/4	121,156	1/4	129,281	1/4	137,411	1/4	145,540	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,325	1/2	129,451	1/2	137,580	1/2	145,710	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,494	3/4	129,620	3/4	137,750	3/4	145,879	3/4		3/4		3/4		3/4		3/4		3/4	
11	121,662	11	129,790	11	137,919	11	146,048	11		11		11		11		11		11	
1/4	121,831	1/4	129,959	1/4	138,088	1/4	146,218	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,000	1/2	130,128	1/2	138,258	1/2	146,387	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,169	3/4	130,298	3/4	138,427	3/4	146,556	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2019 SW
CALCULATED: 02/14/2019 CL
PRINTED: 02/16/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 1409"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	39	0	10,051	0	23,466	0	36,717	0	49,970	0	63,384	0	76,799	0	90,214	0	103,629	0	117,044
1/4	63	1/4	10,331	1/4	23,745	1/4	36,989	1/4	50,249	1/4	63,664	1/4	77,079	1/4	90,494	1/4	103,908	1/4	117,323
1/2	86	1/2	10,610	1/2	24,025	1/2	37,260	1/2	50,529	1/2	63,943	1/2	77,358	1/2	90,773	1/2	104,188	1/2	117,603
3/4	109	3/4	10,890	3/4	24,304	3/4	37,531	3/4	50,808	3/4	64,223	3/4	77,638	3/4	91,052	3/4	104,467	3/4	117,882
1	132	1	11,169	1	24,583	1	37,803	1	51,087	1	64,502	1	77,917	1	91,332	1	104,747	1	118,162
1/4	202	1/4	11,449	1/4	24,863	1/4	38,074	1/4	51,367	1/4	64,782	1/4	78,197	1/4	91,611	1/4	105,026	1/4	118,441
1/2	272	1/2	11,728	1/2	25,142	1/2	38,345	1/2	51,646	1/2	65,061	1/2	78,476	1/2	91,891	1/2	105,306	1/2	118,721
3/4	342	3/4	12,007	3/4	25,422	3/4	38,616	3/4	51,926	3/4	65,341	3/4	78,756	3/4	92,170	3/4	105,585	3/4	119,000
2	412	2	12,287	2	25,701	2	38,888	2	52,205	2	65,620	2	79,035	2	92,450	2	105,865	2	119,279
1/4	528	1/4	12,566	1/4	25,981	1/4	39,159	1/4	52,485	1/4	65,900	1/4	79,314	1/4	92,729	1/4	106,144	1/4	119,559
1/2	645	1/2	12,846	1/2	26,260	1/2	39,430	1/2	52,764	1/2	66,179	1/2	79,594	1/2	93,009	1/2	106,424	1/2	119,838
3/4	761	3/4	13,125	3/4	26,540	3/4	39,701	3/4	53,044	3/4	66,459	3/4	79,873	3/4	93,288	3/4	106,703	3/4	120,118
3	878	3	13,405	3	26,819	3	39,973	3	53,323	3	66,738	3	80,153	3	93,568	3	106,983	3	120,397
1/4	1,041	1/4	13,684	1/4	27,099	1/4	40,244	1/4	53,603	1/4	67,018	1/4	80,432	1/4	93,847	1/4	107,262	1/4	120,677
1/2	1,204	1/2	13,964	1/2	27,378	1/2	40,515	1/2	53,882	1/2	67,297	1/2	80,712	1/2	94,127	1/2	107,542	1/2	120,956
3/4	1,367	3/4	14,243	3/4	27,658	3/4	40,786	3/4	54,162	3/4	67,577	3/4	80,991	3/4	94,406	3/4	107,821	3/4	121,236
4	1,530	4	14,523	4	27,937	4	41,058	4	54,441	4	67,856	4	81,271	4	94,686	4	108,100	4	121,515
1/4	1,739	1/4	14,802	1/4	28,217	1/4	41,329	1/4	54,721	1/4	68,135	1/4	81,550	1/4	94,965	1/4	108,380	1/4	121,795
1/2	1,949	1/2	15,082	1/2	28,496	1/2	41,601	1/2	55,000	1/2	68,415	1/2	81,830	1/2	95,245	1/2	108,659	1/2	122,074
3/4	2,159	3/4	15,361	3/4	28,775	3/4	41,873	3/4	55,280	3/4	68,694	3/4	82,109	3/4	95,524	3/4	108,939	3/4	122,354
5	2,368	5	15,641	5	29,055	5	42,144	5	55,559	5	68,974	5	82,389	5	95,804	5	109,218	5	122,633
1/4	2,624	1/4	15,920	1/4	29,334	1/4	42,424	1/4	55,839	1/4	69,253	1/4	82,668	1/4	96,083	1/4	109,498	1/4	122,913
1/2	2,879	1/2	16,199	1/2	29,614	1/2	42,703	1/2	56,118	1/2	69,533	1/2	82,948	1/2	96,362	1/2	109,777	1/2	123,192
3/4	3,134	3/4	16,479	3/4	29,893	3/4	42,983	3/4	56,398	3/4	69,812	3/4	83,227	3/4	96,642	3/4	110,057	3/4	123,472
6	3,390	6	16,758	6	30,173	6	43,262	6	56,677	6	70,092	6	83,507	6	96,921	6	110,336	6	123,751
1/4	3,664	1/4	17,038	1/4	30,452	1/4	43,542	1/4	56,956	1/4	70,371	1/4	83,786	1/4	97,201	1/4	110,616	1/4	124,031
1/2	3,938	1/2	17,317	1/2	30,732	1/2	43,821	1/2	57,236	1/2	70,651	1/2	84,066	1/2	97,480	1/2	110,895	1/2	124,310
3/4	4,212	3/4	17,597	3/4	31,011	3/4	44,101	3/4	57,515	3/4	70,930	3/4	84,345	3/4	97,760	3/4	111,175	3/4	124,590
7	4,485	7	17,876	7	31,291	7	44,380	7	57,795	7	71,210	7	84,625	7	98,039	7	111,454	7	124,869
1/4	4,762	1/4	18,156	1/4	31,562	1/4	44,660	1/4	58,074	1/4	71,489	1/4	84,904	1/4	98,319	1/4	111,734	1/4	125,148
1/2	5,038	1/2	18,435	1/2	31,834	1/2	44,939	1/2	58,354	1/2	71,769	1/2	85,183	1/2	98,598	1/2	112,013	1/2	125,428
3/4	5,314	3/4	18,715	3/4	32,106	3/4	45,218	3/4	58,633	3/4	72,048	3/4	85,463	3/4	98,878	3/4	112,293	3/4	125,707
8	5,591	8	18,994	8	32,377	8	45,498	8	58,913	8	72,328	8	85,742	8	99,157	8	112,572	8	125,987
1/4	5,869	1/4	19,274	1/4	32,648	1/4	45,777	1/4	59,192	1/4	72,607	1/4	86,022	1/4	99,437	1/4	112,852	1/4	126,266
1/2	6,146	1/2	19,553	1/2	32,920	1/2	46,057	1/2	59,472	1/2	72,887	1/2	86,301	1/2	99,716	1/2	113,131	1/2	126,546
3/4	6,424	3/4	19,833	3/4	33,191	3/4	46,336	3/4	59,751	3/4	73,166	3/4	86,581	3/4	99,996	3/4	113,411	3/4	126,825
9	6,702	9	20,112	9	33,462	9	46,616	9	60,031	9	73,446	9	86,860	9	100,275	9	113,690	9	127,105
1/4	6,981	1/4	20,391	1/4	33,733	1/4	46,895	1/4	60,310	1/4	73,725	1/4	87,140	1/4	100,555	1/4	113,969	1/4	127,384
1/2	7,259	1/2	20,671	1/2	34,005	1/2	47,175	1/2	60,590	1/2	74,004	1/2	87,419	1/2	100,834	1/2	114,249	1/2	127,664
3/4	7,538	3/4	20,950	3/4	34,276	3/4	47,454	3/4	60,869	3/4	74,284	3/4	87,699	3/4	101,114	3/4	114,528	3/4	127,943
10	7,817	10	21,230	10	34,547	10	47,734	10	61,149	10	74,563	10	87,978	10	101,393	10	114,808	10	128,223
1/4	8,096	1/4	21,509	1/4	34,819	1/4	48,013	1/4	61,428	1/4	74,843	1/4	88,258	1/4	101,673	1/4	115,087	1/4	128,502
1/2	8,375	1/2	21,789	1/2	35,090	1/2	48,293	1/2	61,708	1/2	75,122	1/2	88,537	1/2	101,952	1/2	115,367	1/2	128,782
3/4	8,654	3/4	22,068	3/4	35,361	3/4	48,572	3/4	61,987	3/4	75,402	3/4	88,817	3/4	102,231	3/4	115,646	3/4	129,061
11	8,933	11	22,348	11	35,632	11	48,852	11	62,266	11	75,681	11	89,096	11	102,511	11	115,926	11	129,341
1/4	9,213	1/4	22,627	1/4	35,904	1/4	49,131	1/4	62,546	1/4	75,961	1/4	89,376	1/4	102,790	1/4	116,205	1/4	129,620
1/2	9,492	1/2	22,907	1/2	36,175	1/2	49,411	1/2	62,825	1/2	76,240	1/2	89,655	1/2	103,070	1/2	116,485	1/2	129,900
3/4	9,772	3/4	23,186	3/4	36,446	3/4	49,690	3/4	63,105	3/4	76,520	3/4	89,935	3/4	103,349	3/4	116,764	3/4	130,179

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-00" 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 "CBC 1409"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	130,459	0	143,873	0	157,288	0	170,703	0	184,118	0		0		0		0		0	
1/4	130,738	1/4	144,153	1/4	157,568	1/4	170,982	1/4	184,397	1/4		1/4		1/4		1/4		1/4	
1/2	131,017	1/2	144,432	1/2	157,847	1/2	171,262	1/2	184,677	1/2		1/2		1/2		1/2		1/2	
3/4	131,297	3/4	144,712	3/4	158,127	3/4	171,541	3/4	184,956	3/4		3/4		3/4		3/4		3/4	
1	131,576	1	144,991	1	158,406	1	171,821	1	185,236	1		1		1		1		1	
1/4	131,856	1/4	145,271	1/4	158,686	1/4	172,100	1/4	185,515	1/4		1/4		1/4		1/4		1/4	
1/2	132,135	1/2	145,550	1/2	158,965	1/2	172,380	1/2	185,795	1/2		1/2		1/2		1/2		1/2	
3/4	132,415	3/4	145,830	3/4	159,244	3/4	172,659	3/4	186,074	3/4		3/4		3/4		3/4		3/4	
2	132,694	2	146,109	2	159,524	2	172,939	2	186,354	2		2		2		2		2	
1/4	132,974	1/4	146,389	1/4	159,803	1/4	173,218	1/4	186,633	1/4		1/4		1/4		1/4		1/4	
1/2	133,253	1/2	146,668	1/2	160,083	1/2	173,498	1/2	186,913	1/2		1/2		1/2		1/2		1/2	
3/4	133,533	3/4	146,948	3/4	160,362	3/4	173,777	3/4	187,192	3/4		3/4		3/4		3/4		3/4	
3	133,812	3	147,227	3	160,642	3	174,057	3	187,472	3		3		3		3		3	
1/4	134,092	1/4	147,507	1/4	160,921	1/4	174,336	1/4	187,728	1/4		1/4		1/4		1/4		1/4	
1/2	134,371	1/2	147,786	1/2	161,201	1/2	174,616	1/2	187,984	1/2		1/2		1/2		1/2		1/2	
3/4	134,651	3/4	148,065	3/4	161,480	3/4	174,895	3/4	188,240	3/4		3/4		3/4		3/4		3/4	
4	134,930	4	148,345	4	161,760	4	175,175	4	188,496	4		4		4		4		4	
1/4	135,210	1/4	148,624	1/4	162,039	1/4	175,454	1/4	188,706	1/4		1/4		1/4		1/4		1/4	
1/2	135,489	1/2	148,904	1/2	162,319	1/2	175,734	1/2	188,915	1/2		1/2		1/2		1/2		1/2	
3/4	135,769	3/4	149,183	3/4	162,598	3/4	176,013	3/4	189,125	3/4		3/4		3/4		3/4		3/4	
5	136,048	5	149,463	5	162,878	5	176,292	5	189,335	5		5		5		5		5	
1/4	136,327	1/4	149,742	1/4	163,157	1/4	176,572	1/4	189,498	1/4		1/4		1/4		1/4		1/4	
1/2	136,607	1/2	150,022	1/2	163,437	1/2	176,851	1/2	189,661	1/2		1/2		1/2		1/2		1/2	
3/4	136,886	3/4	150,301	3/4	163,716	3/4	177,131	3/4	189,824	3/4		3/4		3/4		3/4		3/4	
6	137,166	6	150,581	6	163,996	6	177,410	6	189,987	6		6		6		6		6	
1/4	137,445	1/4	150,860	1/4	164,275	1/4	177,690	1/4	190,103	1/4		1/4		1/4		1/4		1/4	
1/2	137,725	1/2	151,140	1/2	164,555	1/2	177,969	1/2	190,220	1/2		1/2		1/2		1/2		1/2	
3/4	138,004	3/4	151,419	3/4	164,834	3/4	178,249	3/4	190,336	3/4		3/4		3/4		3/4		3/4	
7	138,284	7	151,699	7	165,113	7	178,528	7	190,453	7		7		7		7		7	
1/4	138,563	1/4	151,978	1/4	165,393	1/4	178,808	1/4	190,522	1/4		1/4		1/4		1/4		1/4	
1/2	138,843	1/2	152,258	1/2	165,672	1/2	179,087	1/2	190,592	1/2		1/2		1/2		1/2		1/2	
3/4	139,122	3/4	152,537	3/4	165,952	3/4	179,367	3/4	190,662	3/4		3/4		3/4		3/4		3/4	
8	139,402	8	152,817	8	166,231	8	179,646	8	190,732	8		8		8		8		8	
1/4	139,681	1/4	153,096	1/4	166,511	1/4	179,926	1/4	190,755	1/4		1/4		1/4		1/4		1/4	
1/2	139,961	1/2	153,375	1/2	166,790	1/2	180,205	1/2	190,779	1/2		1/2		1/2		1/2		1/2	
3/4	140,240	3/4	153,655	3/4	167,070	3/4	180,485	3/4				3/4		3/4		3/4		3/4	
9	140,520	9	153,934	9	167,349	9	180,764	9				9		9		9		9	
1/4	140,799	1/4	154,214	1/4	167,629	1/4	181,044	1/4				1/4		1/4		1/4		1/4	
1/2	141,079	1/2	154,493	1/2	167,908	1/2	181,323	1/2				1/2		1/2		1/2		1/2	
3/4	141,358	3/4	154,773	3/4	168,188	3/4	181,603	3/4				3/4		3/4		3/4		3/4	
10	141,638	10	155,052	10	168,467	10	181,882	10				10		10		10		10	
1/4	141,917	1/4	155,332	1/4	168,747	1/4	182,161	1/4				1/4		1/4		1/4		1/4	
1/2	142,196	1/2	155,611	1/2	169,026	1/2	182,441	1/2				1/2		1/2		1/2		1/2	
3/4	142,476	3/4	155,891	3/4	169,306	3/4	182,720	3/4				3/4		3/4		3/4		3/4	
11	142,755	11	156,170	11	169,585	11	183,000	11				11		11		11		11	
1/4	143,035	1/4	156,450	1/4	169,865	1/4	183,279	1/4				1/4		1/4		1/4		1/4	
1/2	143,314	1/2	156,729	1/2	170,144	1/2	183,559	1/2				1/2		1/2		1/2		1/2	
3/4	143,594	3/4	157,009	3/4	170,424	3/4	183,838	3/4				3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2019 SW
CALCULATED: 02/14/2019 CL
PRINTED: 02/16/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "CBC 1409"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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	39	0	8,938	0	20,861	0	32,770	0	44,682	0	56,605	0	68,528	0	80,452	0	92,375	0	104,298
1/4	60	1/4	9,186	1/4	21,109	1/4	33,017	1/4	44,930	1/4	56,853	1/4	68,777	1/4	80,700	1/4	92,623	1/4	104,547
1/2	81	1/2	9,435	1/2	21,358	1/2	33,265	1/2	45,178	1/2	57,102	1/2	69,025	1/2	80,948	1/2	92,872	1/2	104,795
3/4	101	3/4	9,683	3/4	21,606	3/4	33,513	3/4	45,427	3/4	57,350	3/4	69,273	3/4	81,197	3/4	93,120	3/4	105,044
1	122	1	9,932	1	21,854	1	33,760	1	45,675	1	57,598	1	69,522	1	81,445	1	93,369	1	105,292
1/4	184	1/4	10,180	1/4	22,103	1/4	34,008	1/4	45,924	1/4	57,847	1/4	69,770	1/4	81,694	1/4	93,617	1/4	105,540
1/2	246	1/2	10,428	1/2	22,351	1/2	34,256	1/2	46,172	1/2	58,095	1/2	70,019	1/2	81,942	1/2	93,865	1/2	105,789
3/4	308	3/4	10,677	3/4	22,600	3/4	34,503	3/4	46,420	3/4	58,344	3/4	70,267	3/4	82,190	3/4	94,114	3/4	106,037
2	370	2	10,925	2	22,848	2	34,751	2	46,669	2	58,592	2	70,515	2	82,439	2	94,362	2	106,286
1/4	474	1/4	11,173	1/4	23,096	1/4	34,999	1/4	46,917	1/4	58,841	1/4	70,764	1/4	82,687	1/4	94,611	1/4	106,534
1/2	577	1/2	11,422	1/2	23,345	1/2	35,247	1/2	47,166	1/2	59,089	1/2	71,012	1/2	82,936	1/2	94,859	1/2	106,782
3/4	681	3/4	11,670	3/4	23,593	3/4	35,494	3/4	47,414	3/4	59,337	3/4	71,261	3/4	83,184	3/4	95,107	3/4	107,031
3	784	3	11,919	3	23,842	3	35,742	3	47,662	3	59,586	3	71,509	3	83,432	3	95,356	3	107,279
1/4	929	1/4	12,167	1/4	24,090	1/4	35,990	1/4	47,911	1/4	59,834	1/4	71,757	1/4	83,681	1/4	95,604	1/4	107,528
1/2	1,074	1/2	12,415	1/2	24,338	1/2	36,237	1/2	48,159	1/2	60,083	1/2	72,006	1/2	83,929	1/2	95,853	1/2	107,776
3/4	1,219	3/4	12,664	3/4	24,587	3/4	36,485	3/4	48,408	3/4	60,331	3/4	72,254	3/4	84,178	3/4	96,101	3/4	108,024
4	1,364	4	12,912	4	24,835	4	36,733	4	48,656	4	60,579	4	72,503	4	84,426	4	96,349	4	108,273
1/4	1,550	1/4	13,161	1/4	25,084	1/4	36,981	1/4	48,904	1/4	60,828	1/4	72,751	1/4	84,674	1/4	96,598	1/4	108,521
1/2	1,736	1/2	13,409	1/2	25,332	1/2	37,229	1/2	49,153	1/2	61,076	1/2	72,999	1/2	84,923	1/2	96,846	1/2	108,770
3/4	1,923	3/4	13,657	3/4	25,580	3/4	37,478	3/4	49,401	3/4	61,325	3/4	73,248	3/4	85,171	3/4	97,095	3/4	109,018
5	2,109	5	13,906	5	25,829	5	37,726	5	49,650	5	61,573	5	73,496	5	85,420	5	97,343	5	109,266
1/4	2,336	1/4	14,154	1/4	26,077	1/4	37,975	1/4	49,898	1/4	61,821	1/4	73,745	1/4	85,668	1/4	97,591	1/4	109,515
1/2	2,563	1/2	14,403	1/2	26,326	1/2	38,223	1/2	50,146	1/2	62,070	1/2	73,993	1/2	85,916	1/2	97,840	1/2	109,763
3/4	2,790	3/4	14,651	3/4	26,574	3/4	38,471	3/4	50,395	3/4	62,318	3/4	74,242	3/4	86,165	3/4	98,088	3/4	110,012
6	3,017	6	14,899	6	26,822	6	38,720	6	50,643	6	62,567	6	74,490	6	86,413	6	98,337	6	110,260
1/4	3,261	1/4	15,148	1/4	27,070	1/4	38,968	1/4	50,892	1/4	62,815	1/4	74,738	1/4	86,662	1/4	98,585	1/4	110,508
1/2	3,504	1/2	15,396	1/2	27,318	1/2	39,217	1/2	51,140	1/2	63,063	1/2	74,987	1/2	86,910	1/2	98,833	1/2	110,757
3/4	3,748	3/4	15,645	3/4	27,566	3/4	39,465	3/4	51,388	3/4	63,312	3/4	75,235	3/4	87,158	3/4	99,082	3/4	111,005
7	3,991	7	15,893	7	27,814	7	39,713	7	51,637	7	63,560	7	75,484	7	87,407	7	99,330	7	111,254
1/4	4,237	1/4	16,141	1/4	28,063	1/4	39,962	1/4	51,885	1/4	63,809	1/4	75,732	1/4	87,655	1/4	99,579	1/4	111,502
1/2	4,482	1/2	16,390	1/2	28,311	1/2	40,210	1/2	52,134	1/2	64,057	1/2	75,980	1/2	87,904	1/2	99,827	1/2	111,750
3/4	4,728	3/4	16,638	3/4	28,559	3/4	40,459	3/4	52,382	3/4	64,305	3/4	76,229	3/4	88,152	3/4	100,075	3/4	111,999
8	4,973	8	16,887	8	28,807	8	40,707	8	52,630	8	64,554	8	76,477	8	88,400	8	100,324	8	112,247
1/4	5,220	1/4	17,135	1/4	29,054	1/4	40,955	1/4	52,879	1/4	64,802	1/4	76,726	1/4	88,649	1/4	100,572	1/4	112,496
1/2	5,467	1/2	17,383	1/2	29,302	1/2	41,204	1/2	53,127	1/2	65,051	1/2	76,974	1/2	88,897	1/2	100,821	1/2	112,744
3/4	5,714	3/4	17,632	3/4	29,550	3/4	41,452	3/4	53,376	3/4	65,299	3/4	77,222	3/4	89,146	3/4	101,069	3/4	112,992
9	5,961	9	17,880	9	29,797	9	41,701	9	53,624	9	65,547	9	77,471	9	89,394	9	101,317	9	113,241
1/4	6,209	1/4	18,129	1/4	30,045	1/4	41,949	1/4	53,872	1/4	65,796	1/4	77,719	1/4	89,643	1/4	101,566	1/4	113,489
1/2	6,456	1/2	18,377	1/2	30,293	1/2	42,198	1/2	54,121	1/2	66,044	1/2	77,968	1/2	89,891	1/2	101,814	1/2	113,738
3/4	6,704	3/4	18,625	3/4	30,540	3/4	42,446	3/4	54,369	3/4	66,293	3/4	78,216	3/4	90,139	3/4	102,063	3/4	113,986
10	6,952	10	18,874	10	30,788	10	42,694	10	54,618	10	66,541	10	78,464	10	90,388	10	102,311	10	114,234
1/4	7,200	1/4	19,122	1/4	31,036	1/4	42,943	1/4	54,866	1/4	66,789	1/4	78,713	1/4	90,636	1/4	102,559	1/4	114,483
1/2	7,448	1/2	19,370	1/2	31,284	1/2	43,191	1/2	55,114	1/2	67,038	1/2	78,961	1/2	90,885	1/2	102,808	1/2	114,731
3/4	7,696	3/4	19,619	3/4	31,531	3/4	43,440	3/4	55,363	3/4	67,286	3/4	79,210	3/4	91,133	3/4	103,056	3/4	114,980
11	7,944	11	19,867	11	31,779	11	43,688	11	55,611	11	67,535	11	79,458	11	91,381	11	103,305	11	115,228
1/4	8,193	1/4	20,116	1/4	32,027	1/4	43,936	1/4	55,860	1/4	67,783	1/4	79,706	1/4	91,630	1/4	103,553	1/4	115,476
1/2	8,441	1/2	20,364	1/2	32,274	1/2	44,185	1/2	56,108	1/2	68,031	1/2	79,955	1/2	91,878	1/2	103,801	1/2	115,725
3/4	8,690	3/4	20,612	3/4	32,522	3/4	44,433	3/4	56,356	3/4	68,280	3/4	80,203	3/4	92,127	3/4	104,050	3/4	115,973

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "CBC 1409"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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	116,222	0	128,145	0	140,068	0	151,992	0	163,915	0		0		0		0		0	
1/4	116,470	1/4	128,393	1/4	140,317	1/4	152,240	1/4	164,163	1/4		1/4		1/4		1/4		1/4	
1/2	116,718	1/2	128,642	1/2	140,565	1/2	152,489	1/2	164,412	1/2		1/2		1/2		1/2		1/2	
3/4	116,967	3/4	128,890	3/4	140,814	3/4	152,737	3/4	164,660	3/4		3/4		3/4		3/4		3/4	
1	117,215	1	129,139	1	141,062	1	152,985	1	164,909	1		1		1		1		1	
1/4	117,464	1/4	129,387	1/4	141,310	1/4	153,234	1/4	165,157	1/4		1/4		1/4		1/4		1/4	
1/2	117,712	1/2	129,635	1/2	141,559	1/2	153,482	1/2	165,405	1/2		1/2		1/2		1/2		1/2	
3/4	117,960	3/4	129,884	3/4	141,807	3/4	153,731	3/4	165,654	3/4		3/4		3/4		3/4		3/4	
2	118,209	2	130,132	2	142,056	2	153,979	2	165,902	2		2		2		2		2	
1/4	118,457	1/4	130,381	1/4	142,304	1/4	154,227	1/4	166,151	1/4		1/4		1/4		1/4		1/4	
1/2	118,706	1/2	130,629	1/2	142,552	1/2	154,476	1/2	166,399	1/2		1/2		1/2		1/2		1/2	
3/4	118,954	3/4	130,877	3/4	142,801	3/4	154,724	3/4	166,648	3/4		3/4		3/4		3/4		3/4	
3	119,202	3	131,126	3	143,049	3	154,973	3	166,896	3		3		3		3		3	
1/4	119,451	1/4	131,374	1/4	143,298	1/4	155,221	1/4	167,124	1/4		1/4		1/4		1/4		1/4	
1/2	119,699	1/2	131,623	1/2	143,546	1/2	155,469	1/2	167,351	1/2		1/2		1/2		1/2		1/2	
3/4	119,948	3/4	131,871	3/4	143,794	3/4	155,718	3/4	167,579	3/4		3/4		3/4		3/4		3/4	
4	120,196	4	132,119	4	144,043	4	155,966	4	167,807	4		4		4		4		4	
1/4	120,445	1/4	132,368	1/4	144,291	1/4	156,215	1/4	167,993	1/4		1/4		1/4		1/4		1/4	
1/2	120,693	1/2	132,616	1/2	144,540	1/2	156,463	1/2	168,179	1/2		1/2		1/2		1/2		1/2	
3/4	120,941	3/4	132,865	3/4	144,788	3/4	156,711	3/4	168,366	3/4		3/4		3/4		3/4		3/4	
5	121,190	5	133,113	5	145,036	5	156,960	5	168,552	5		5		5		5		5	
1/4	121,438	1/4	133,361	1/4	145,285	1/4	157,208	1/4	168,697	1/4		1/4		1/4		1/4		1/4	
1/2	121,687	1/2	133,610	1/2	145,533	1/2	157,457	1/2	168,842	1/2		1/2		1/2		1/2		1/2	
3/4	121,935	3/4	133,858	3/4	145,782	3/4	157,705	3/4	168,987	3/4		3/4		3/4		3/4		3/4	
6	122,183	6	134,107	6	146,030	6	157,953	6	169,132	6		6		6		6		6	
1/4	122,432	1/4	134,355	1/4	146,278	1/4	158,202	1/4	169,235	1/4		1/4		1/4		1/4		1/4	
1/2	122,680	1/2	134,603	1/2	146,527	1/2	158,450	1/2	169,339	1/2		1/2		1/2		1/2		1/2	
3/4	122,929	3/4	134,852	3/4	146,775	3/4	158,699	3/4	169,442	3/4		3/4		3/4		3/4		3/4	
7	123,177	7	135,100	7	147,024	7	158,947	7	169,546	7		7		7		7		7	
1/4	123,425	1/4	135,349	1/4	147,272	1/4	159,195	1/4	169,608	1/4		1/4		1/4		1/4		1/4	
1/2	123,674	1/2	135,597	1/2	147,520	1/2	159,444	1/2	169,670	1/2		1/2		1/2		1/2		1/2	
3/4	123,922	3/4	135,846	3/4	147,769	3/4	159,692	3/4	169,732	3/4		3/4		3/4		3/4		3/4	
8	124,171	8	136,094	8	148,017	8	159,941	8	169,794	8		8		8		8		8	
1/4	124,419	1/4	136,342	1/4	148,266	1/4	160,189	1/4	169,815	1/4		1/4		1/4		1/4		1/4	
1/2	124,667	1/2	136,591	1/2	148,514	1/2	160,437	1/2	169,835	1/2		1/2		1/2		1/2		1/2	
3/4	124,916	3/4	136,839	3/4	148,762	3/4	160,686	3/4		3/4		3/4		3/4		3/4		3/4	
9	125,164	9	137,088	9	149,011	9	160,934	9		9		9		9		9		9	
1/4	125,413	1/4	137,336	1/4	149,259	1/4	161,183	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	125,661	1/2	137,584	1/2	149,508	1/2	161,431	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	125,909	3/4	137,833	3/4	149,756	3/4	161,679	3/4		3/4		3/4		3/4		3/4		3/4	
10	126,158	10	138,081	10	150,004	10	161,928	10		10		10		10		10		10	
1/4	126,406	1/4	138,330	1/4	150,253	1/4	162,176	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,655	1/2	138,578	1/2	150,501	1/2	162,425	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	126,903	3/4	138,826	3/4	150,750	3/4	162,673	3/4		3/4		3/4		3/4		3/4		3/4	
11	127,151	11	139,075	11	150,998	11	162,921	11		11		11		11		11		11	
1/4	127,400	1/4	139,323	1/4	151,247	1/4	163,170	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	127,648	1/2	139,572	1/2	151,495	1/2	163,418	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,897	3/4	139,820	3/4	151,743	3/4	163,667	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2019 SW
CALCULATED: 02/14/2019 CL
PRINTED: 02/16/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.dmacorp.net>



BARGE "CBC 1409"

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	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-1/2	01-1/2	- 01-7/8	01-7/8	- 02-1/4	02-1/4
2 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
3 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	- 00-1/4	00-1/4

(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 1 CENTER IS 00-3/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/4"

LENGTH BETWEEN DRAFT MARKS: 178'-06"

February 12, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1409"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	151,584	0	144,016	0	135,887	0	127,757	0	119,637	0	108,925	0	97,326	0	85,726
1/4		1/4		1/4	151,523	1/4	143,847	1/4	135,718	1/4	127,588	1/4	119,468	1/4	108,683	1/4	97,084	1/4	85,484
1/2		1/2		1/2	151,463	1/2	143,678	1/2	135,548	1/2	127,419	1/2	119,300	1/2	108,442	1/2	96,842	1/2	85,243
3/4		3/4		3/4	151,402	3/4	143,508	3/4	135,379	3/4	127,249	3/4	119,131	3/4	108,200	3/4	96,601	3/4	85,001
1		1		1	151,341	1	143,339	1	135,209	1	127,080	1	118,962	1	107,958	1	96,359	1	84,759
1/4		1/4		1/4	151,241	1/4	143,170	1/4	135,040	1/4	126,911	1/4	118,793	1/4	107,717	1/4	96,117	1/4	84,518
1/2		1/2		1/2	151,140	1/2	143,000	1/2	134,871	1/2	126,741	1/2	118,624	1/2	107,475	1/2	95,876	1/2	84,276
3/4		3/4		3/4	151,039	3/4	142,831	3/4	134,701	3/4	126,572	3/4	118,456	3/4	107,234	3/4	95,634	3/4	84,034
2		2		2	150,938	2	142,661	2	134,532	2	126,403	2	118,287	2	106,992	2	95,392	2	83,793
1/4		1/4		1/4	150,797	1/4	142,492	1/4	134,363	1/4	126,233	1/4	118,118	1/4	106,750	1/4	95,151	1/4	83,551
1/2		1/2		1/2	150,655	1/2	142,323	1/2	134,193	1/2	126,064	1/2	117,950	1/2	106,509	1/2	94,909	1/2	83,309
3/4		3/4		3/4	150,514	3/4	142,153	3/4	134,024	3/4	125,894	3/4	117,782	3/4	106,267	3/4	94,667	3/4	83,068
3		3		3	150,373	3	141,984	3	133,855	3	125,725	3	117,614	3	106,025	3	94,426	3	82,826
1/4		1/4		1/4	150,191	1/4	141,815	1/4	133,685	1/4	125,556	1/4	117,372	1/4	105,784	1/4	94,184	1/4	82,585
1/2		1/2		1/2	150,010	1/2	141,645	1/2	133,516	1/2	125,386	1/2	117,131	1/2	105,542	1/2	93,942	1/2	82,344
3/4		3/4		3/4	149,828	3/4	141,476	3/4	133,346	3/4	125,217	3/4	116,890	3/4	105,300	3/4	93,701	3/4	82,103
4		4		4	149,646	4	141,307	4	133,177	4	125,048	4	116,649	4	105,059	4	93,459	4	81,862
1/4		1/4		1/4	149,424	1/4	141,137	1/4	133,008	1/4	124,878	1/4	116,408	1/4	104,817	1/4	93,217	1/4	81,622
1/2		1/2		1/2	149,202	1/2	140,968	1/2	132,838	1/2	124,709	1/2	116,167	1/2	104,575	1/2	92,976	1/2	81,382
3/4		3/4		3/4	148,980	3/4	140,798	3/4	132,669	3/4	124,540	3/4	115,926	3/4	104,334	3/4	92,734	3/4	81,142
5		5		5	148,759	5	140,629	5	132,500	5	124,370	5	115,685	5	104,092	5	92,492	5	80,902
1/4		1/4		1/4	148,589	1/4	140,460	1/4	132,330	1/4	124,201	1/4	115,444	1/4	103,850	1/4	92,251	1/4	80,661
1/2		1/2		1/2	148,420	1/2	140,290	1/2	132,161	1/2	124,031	1/2	115,203	1/2	103,609	1/2	92,009	1/2	80,421
3/4		3/4		3/4	148,250	3/4	140,121	3/4	131,992	3/4	123,862	3/4	114,961	3/4	103,367	3/4	91,768	3/4	80,181
6		6		6	148,081	6	139,952	6	131,822	6	123,693	6	114,720	6	103,125	6	91,526	6	79,941
1/4		1/4		1/4	147,912	1/4	139,782	1/4	131,653	1/4	123,523	1/4	114,479	1/4	102,884	1/4	91,284	1/4	79,700
1/2		1/2		1/2	147,742	1/2	139,613	1/2	131,483	1/2	123,354	1/2	114,238	1/2	102,642	1/2	91,043	1/2	79,460
3/4		3/4		3/4	147,573	3/4	139,444	3/4	131,314	3/4	123,185	3/4	113,997	3/4	102,400	3/4	90,801	3/4	79,220
7		7		7	147,404	7	139,274	7	131,145	7	123,015	7	113,756	7	102,159	7	90,559	7	78,980
1/4		1/4		1/4	147,234	1/4	139,105	1/4	130,975	1/4	122,846	1/4	113,515	1/4	101,917	1/4	90,318	1/4	78,740
1/2		1/2		1/2	147,065	1/2	138,935	1/2	130,806	1/2	122,677	1/2	113,274	1/2	101,675	1/2	90,076	1/2	78,499
3/4		3/4		3/4	146,896	3/4	138,766	3/4	130,637	3/4	122,507	3/4	113,033	3/4	101,434	3/4	89,834	3/4	78,259
8		8		8	146,726	8	138,597	8	130,467	8	122,338	8	112,792	8	101,192	8	89,593	8	78,019
1/4		1/4		1/4	146,557	1/4	138,427	1/4	130,298	1/4	122,169	1/4	112,550	1/4	100,950	1/4	89,351	1/4	77,779
1/2		1/2		1/2	146,387	1/2	138,258	1/2	130,129	1/2	122,000	1/2	112,308	1/2	100,709	1/2	89,109	1/2	77,539
3/4		3/4		3/4	146,218	3/4	138,089	3/4	129,959	3/4	121,831	3/4	112,067	3/4	100,467	3/4	88,868	3/4	77,298
9		9		9	146,049	9	137,919	9	129,790	9	121,663	9	111,825	9	100,225	9	88,626	9	77,058
1/4		1/4		1/4	145,879	1/4	137,750	1/4	129,620	1/4	121,494	1/4	111,583	1/4	99,984	1/4	88,384	1/4	76,818
1/2		1/2		1/2	145,710	1/2	137,581	1/2	129,451	1/2	121,325	1/2	111,342	1/2	99,742	1/2	88,143	1/2	76,578
3/4		3/4		3/4	145,541	3/4	137,411	3/4	129,282	3/4	121,156	3/4	111,100	3/4	99,501	3/4	87,901	3/4	76,337
10		10		10	145,371	10	137,242	10	129,112	10	120,987	10	110,858	10	99,259	10	87,659	10	76,097
1/4		1/4		1/4	145,202	1/4	137,072	1/4	128,943	1/4	120,819	1/4	110,617	1/4	99,017	1/4	87,418	1/4	75,857
1/2		1/2		1/2	145,033	1/2	136,903	1/2	128,774	1/2	120,650	1/2	110,375	1/2	98,776	1/2	87,176	1/2	75,617
3/4		3/4		3/4	144,863	3/4	136,734	3/4	128,604	3/4	120,481	3/4	110,133	3/4	98,534	3/4	86,934	3/4	75,377
11		11		11	144,694	11	136,564	11	128,435	11	120,312	11	109,892	11	98,292	11	86,693	11	75,136
1/4		1/4		1/4	144,524	1/4	136,395	1/4	128,266	1/4	120,144	1/4	109,650	1/4	98,051	1/4	86,451	1/4	74,895
1/2		1/2		151,624	144,355	1/2	136,226	1/2	128,096	1/2	119,975	1/2	109,408	1/2	97,809	1/2	86,209	1/2	74,654
3/4		3/4		151,604	144,186	3/4	136,056	3/4	127,927	3/4	119,806	3/4	109,167	3/4	97,567	3/4	85,968	3/4	74,413

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 THREADS ON "MMC" VALVE

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-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 "CBC 1409"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	74,172	0	62,582	0	50,987	0	39,392	0	28,027	0	16,463	0	4,849	0		0		0	
1/4	73,932	1/4	62,341	1/4	50,746	1/4	39,151	1/4	27,792	1/4	16,221	1/4	4,610	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,691	1/2	62,099	1/2	50,504	1/2	38,909	1/2	27,557	1/2	15,979	1/2	4,371	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,450	3/4	61,857	3/4	50,262	3/4	38,667	3/4	27,323	3/4	15,736	3/4	4,131	3/4	3/4	3/4	3/4	3/4	3/4
1	73,209	1	61,616	1	50,021	1	38,426	1	27,088	1	15,494	1	3,892	1		1		1	
1/4	72,968	1/4	61,374	1/4	49,779	1/4	38,184	1/4	26,853	1/4	15,252	1/4	3,654	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,727	1/2	61,133	1/2	49,538	1/2	37,943	1/2	26,618	1/2	15,010	1/2	3,417	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,486	3/4	60,891	3/4	49,296	3/4	37,701	3/4	26,383	3/4	14,768	3/4	3,180	3/4	3/4	3/4	3/4	3/4	3/4
2	72,245	2	60,650	2	49,055	2	37,460	2	26,149	2	14,526	2	2,942	2		2		2	
1/4	72,003	1/4	60,408	1/4	48,813	1/4	37,218	1/4	25,907	1/4	14,284	1/4	2,721	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,762	1/2	60,167	1/2	48,572	1/2	36,977	1/2	25,664	1/2	14,041	1/2	2,500	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,520	3/4	59,925	3/4	48,330	3/4	36,735	3/4	25,422	3/4	13,799	3/4	2,279	3/4	3/4	3/4	3/4	3/4	3/4
3	71,278	3	59,683	3	48,088	3	36,493	3	25,180	3	13,557	3	2,057	3		3		3	
1/4	71,037	1/4	59,442	1/4	47,847	1/4	36,252	1/4	24,938	1/4	13,315	1/4	1,876	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,795	1/2	59,200	1/2	47,605	1/2	36,010	1/2	24,696	1/2	13,073	1/2	1,694	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,554	3/4	58,959	3/4	47,364	3/4	35,769	3/4	24,454	3/4	12,831	3/4	1,513	3/4	3/4	3/4	3/4	3/4	3/4
4	70,312	4	58,717	4	47,122	4	35,527	4	24,212	4	12,589	4	1,331	4		4		4	
1/4	70,071	1/4	58,476	1/4	46,881	1/4	35,293	1/4	23,969	1/4	12,346	1/4	1,190	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,829	1/2	58,234	1/2	46,639	1/2	35,058	1/2	23,727	1/2	12,104	1/2	1,049	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,588	3/4	57,992	3/4	46,397	3/4	34,824	3/4	23,485	3/4	11,862	3/4	907	3/4	3/4	3/4	3/4	3/4	3/4
5	69,346	5	57,751	5	46,156	5	34,590	5	23,243	5	11,620	5	766	5		5		5	
1/4	69,104	1/4	57,509	1/4	45,914	1/4	34,355	1/4	23,001	1/4	11,378	1/4	665	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,863	1/2	57,268	1/2	45,673	1/2	34,121	1/2	22,759	1/2	11,136	1/2	564	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,621	3/4	57,026	3/4	45,431	3/4	33,886	3/4	22,517	3/4	10,894	3/4	463	3/4	3/4	3/4	3/4	3/4	3/4
6	68,380	6	56,785	6	45,190	6	33,652	6	22,274	6	10,651	6	363	6		6		6	
1/4	68,138	1/4	56,543	1/4	44,948	1/4	33,418	1/4	22,032	1/4	10,409	1/4	302	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,897	1/2	56,302	1/2	44,707	1/2	33,183	1/2	21,790	1/2	10,167	1/2	241	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,655	3/4	56,060	3/4	44,465	3/4	32,949	3/4	21,548	3/4	9,925	3/4	181	3/4	3/4	3/4	3/4	3/4	3/4
7	67,413	7	55,818	7	44,223	7	32,715	7	21,306	7	9,683	7	120	7		7		7	
1/4	67,172	1/4	55,577	1/4	43,982	1/4	32,480	1/4	21,064	1/4	9,441	1/4	100	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,930	1/2	55,335	1/2	43,740	1/2	32,246	1/2	20,822	1/2	9,199	1/2	80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,689	3/4	55,094	3/4	43,499	3/4	32,011	3/4	20,579	3/4	8,956	3/4	60	3/4	3/4	3/4	3/4	3/4	3/4
8	66,447	8	54,852	8	43,257	8	31,777	8	20,337	8	8,714	8	39	8		8		8	
1/4	66,206	1/4	54,611	1/4	43,016	1/4	31,543	1/4	20,095	1/4	8,472	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,964	1/2	54,369	1/2	42,774	1/2	31,308	1/2	19,853	1/2	8,230	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,722	3/4	54,127	3/4	42,532	3/4	31,074	3/4	19,611	3/4	7,988	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	65,481	9	53,886	9	42,291	9	30,839	9	19,369	9	7,746	9		9		9		9	
1/4	65,239	1/4	53,644	1/4	42,049	1/4	30,605	1/4	19,126	1/4	7,504	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,998	1/2	53,403	1/2	41,808	1/2	30,371	1/2	18,884	1/2	7,262	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	64,756	3/4	53,161	3/4	41,566	3/4	30,136	3/4	18,642	3/4	7,020	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	64,515	10	52,920	10	41,325	10	29,902	10	18,400	10	6,778	10		10		10		10	
1/4	64,273	1/4	52,678	1/4	41,083	1/4	29,668	1/4	18,158	1/4	6,537	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,032	1/2	52,437	1/2	40,842	1/2	29,433	1/2	17,916	1/2	6,295	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,790	3/4	52,195	3/4	40,600	3/4	29,199	3/4	17,674	3/4	6,054	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	63,548	11	51,953	11	40,358	11	28,964	11	17,431	11	5,812	11		11		11		11	
1/4	63,307	1/4	51,712	1/4	40,117	1/4	28,730	1/4	17,189	1/4	5,572	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,065	1/2	51,470	1/2	39,875	1/2	28,496	1/2	16,947	1/2	5,331	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,824	3/4	51,229	3/4	39,634	3/4	28,261	3/4	16,705	3/4	5,090	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2019 SW
CALCULATED: 02/14/2019 CL
PRINTED: 02/16/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

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



BARGE "CBC 1409"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	190,732	0	179,647	0	166,232	0	152,817	0	139,402	0	125,987	0	112,572	0	99,158
1/4		1/4		1/4	190,663	1/4	179,367	1/4	165,952	1/4	152,537	1/4	139,123	1/4	125,708	1/4	112,293	1/4	98,878
1/2		1/2		1/2	190,593	1/2	179,088	1/2	165,673	1/2	152,258	1/2	138,843	1/2	125,428	1/2	112,014	1/2	98,599
3/4		3/4		3/4	190,523	3/4	178,808	3/4	165,393	3/4	151,979	3/4	138,564	3/4	125,149	3/4	111,734	3/4	98,319
1		1		1	190,453	1	178,529	1	165,114	1	151,699	1	138,284	1	124,869	1	111,455	1	98,040
1/4		1/4		1/4	190,337	1/4	178,249	1/4	164,834	1/4	151,420	1/4	138,005	1/4	124,590	1/4	111,175	1/4	97,760
1/2		1/2		1/2	190,220	1/2	177,970	1/2	164,555	1/2	151,140	1/2	137,725	1/2	124,310	1/2	110,896	1/2	97,481
3/4		3/4		3/4	190,104	3/4	177,690	3/4	164,275	3/4	150,861	3/4	137,446	3/4	124,031	3/4	110,616	3/4	97,201
2		2		2	189,987	2	177,411	2	163,996	2	150,581	2	137,166	2	123,751	2	110,337	2	96,922
1/4		1/4		1/4	189,824	1/4	177,131	1/4	163,716	1/4	150,302	1/4	136,887	1/4	123,472	1/4	110,057	1/4	96,642
1/2		1/2		1/2	189,661	1/2	176,852	1/2	163,437	1/2	150,022	1/2	136,607	1/2	123,193	1/2	109,778	1/2	96,363
3/4		3/4		3/4	189,498	3/4	176,572	3/4	163,158	3/4	149,743	3/4	136,328	3/4	122,913	3/4	109,498	3/4	96,083
3		3		3	189,335	3	176,293	3	162,878	3	149,463	3	136,048	3	122,634	3	109,219	3	95,804
1/4		1/4		1/4	189,125	1/4	176,013	1/4	162,599	1/4	149,184	1/4	135,769	1/4	122,354	1/4	108,939	1/4	95,524
1/2		1/2		1/2	188,916	1/2	175,734	1/2	162,319	1/2	148,904	1/2	135,489	1/2	122,075	1/2	108,660	1/2	95,245
3/4		3/4		3/4	188,706	3/4	175,454	3/4	162,040	3/4	148,625	3/4	135,210	3/4	121,795	3/4	108,380	3/4	94,966
4		4		4	188,497	4	175,175	4	161,760	4	148,345	4	134,931	4	121,516	4	108,101	4	94,686
1/4		1/4		1/4	188,240	1/4	174,896	1/4	161,481	1/4	148,066	1/4	134,651	1/4	121,236	1/4	107,821	1/4	94,407
1/2		1/2		1/2	187,984	1/2	174,616	1/2	161,201	1/2	147,786	1/2	134,372	1/2	120,957	1/2	107,542	1/2	94,127
3/4		3/4		3/4	187,728	3/4	174,337	3/4	160,922	3/4	147,507	3/4	134,092	3/4	120,677	3/4	107,262	3/4	93,848
5		5		5	187,472	5	174,057	5	160,642	5	147,227	5	133,813	5	120,398	5	106,983	5	93,568
1/4		1/4		1/4	187,192	1/4	173,778	1/4	160,363	1/4	146,948	1/4	133,533	1/4	120,118	1/4	106,703	1/4	93,289
1/2		1/2		1/2	186,913	1/2	173,498	1/2	160,083	1/2	146,668	1/2	133,254	1/2	119,839	1/2	106,424	1/2	93,009
3/4		3/4		3/4	186,633	3/4	173,219	3/4	159,804	3/4	146,389	3/4	132,974	3/4	119,559	3/4	106,145	3/4	92,730
6		6		6	186,354	6	172,939	6	159,524	6	146,110	6	132,695	6	119,280	6	105,865	6	92,450
1/4		1/4		1/4	186,075	1/4	172,660	1/4	159,245	1/4	145,830	1/4	132,415	1/4	119,000	1/4	105,586	1/4	92,171
1/2		1/2		1/2	185,795	1/2	172,380	1/2	158,965	1/2	145,551	1/2	132,136	1/2	118,721	1/2	105,306	1/2	91,891
3/4		3/4		3/4	185,516	3/4	172,101	3/4	158,686	3/4	145,271	3/4	131,856	3/4	118,441	3/4	105,027	3/4	91,612
7		7		7	185,236	7	171,821	7	158,406	7	144,992	7	131,577	7	118,162	7	104,747	7	91,332
1/4		1/4		1/4	184,957	1/4	171,542	1/4	158,127	1/4	144,712	1/4	131,297	1/4	117,883	1/4	104,468	1/4	91,053
1/2		1/2		1/2	184,677	1/2	171,262	1/2	157,848	1/2	144,433	1/2	131,018	1/2	117,603	1/2	104,188	1/2	90,773
3/4		3/4		3/4	184,398	3/4	170,983	3/4	157,568	3/4	144,153	3/4	130,738	3/4	117,324	3/4	103,909	3/4	90,494
8		8		8	184,118	8	170,703	8	157,289	8	143,874	8	130,459	8	117,044	8	103,629	8	90,214
1/4		1/4		1/4	183,839	1/4	170,424	1/4	157,009	1/4	143,594	1/4	130,179	1/4	116,765	1/4	103,350	1/4	89,935
1/2		1/2		1/2	183,559	1/2	170,144	1/2	156,730	1/2	143,315	1/2	129,900	1/2	116,485	1/2	103,070	1/2	89,655
3/4		3/4		3/4	183,280	3/4	169,865	3/4	156,450	3/4	143,035	3/4	129,620	3/4	116,206	3/4	102,791	3/4	89,376
9		9		9	183,000	9	169,585	9	156,171	9	142,756	9	129,341	9	115,926	9	102,511	9	89,097
1/4		1/4		1/4	182,721	1/4	169,306	1/4	155,891	1/4	142,476	1/4	129,062	1/4	115,647	1/4	102,232	1/4	88,817
1/2		1/2		1/2	182,441	1/2	169,027	1/2	155,612	1/2	142,197	1/2	128,782	1/2	115,367	1/2	101,952	1/2	88,538
3/4		3/4		3/4	182,162	3/4	168,747	3/4	155,332	3/4	141,917	3/4	128,503	3/4	115,088	3/4	101,673	3/4	88,258
10		10		10	181,882	10	168,468	10	155,053	10	141,638	10	128,223	10	114,808	10	101,393	10	87,979
1/4		1/4		1/4	181,603	1/4	168,188	1/4	154,773	1/4	141,358	1/4	127,944	1/4	114,529	1/4	101,114	1/4	87,699
1/2		1/2		1/2	181,323	1/2	167,909	1/2	154,494	1/2	141,079	1/2	127,664	1/2	114,249	1/2	100,835	1/2	87,420
3/4		3/4		3/4	181,044	3/4	167,629	3/4	154,214	3/4	140,799	3/4	127,385	3/4	113,970	3/4	100,555	3/4	87,140
11		11		11	180,764	11	167,350	11	153,935	11	140,520	11	127,105	11	113,690	11	100,276	11	86,861
1/4		1/4		1/4	180,485	1/4	167,070	1/4	153,655	1/4	140,241	1/4	126,826	1/4	113,411	1/4	99,996	1/4	86,581
1/2		1/2		1/2	190,779	1/2	180,206	1/2	166,791	1/2	153,376	1/2	139,961	1/2	126,546	1/2	113,131	1/2	86,302
3/4		3/4		3/4	190,756	3/4	179,926	3/4	166,511	3/4	153,096	3/4	139,682	3/4	126,267	3/4	112,852	3/4	86,022

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 THREADS ON "MMC" VALVE

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-00" 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 "CBC 1409"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

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	85,743	0	72,328	0	58,913	0	45,498	0	32,378	0	18,995	0	5,591	0		0		0	
1/4	85,463	1/4	72,049	1/4	58,634	1/4	45,219	1/4	32,106	1/4	18,715	1/4	5,315	1/4	1/4	1/4	1/4	1/4	
1/2	85,184	1/2	71,769	1/2	58,354	1/2	44,939	1/2	31,834	1/2	18,436	1/2	5,039	1/2	1/2	1/2	1/2	1/2	
3/4	84,904	3/4	71,490	3/4	58,075	3/4	44,660	3/4	31,563	3/4	18,156	3/4	4,762	3/4	3/4	3/4	3/4	3/4	
1	84,625	1	71,210	1	57,795	1	44,380	1	31,291	1	17,877	1	4,486	1		1		1	
1/4	84,345	1/4	70,931	1/4	57,516	1/4	44,101	1/4	31,012	1/4	17,597	1/4	4,212	1/4	1/4	1/4	1/4	1/4	
1/2	84,066	1/2	70,651	1/2	57,236	1/2	43,822	1/2	30,732	1/2	17,318	1/2	3,938	1/2	1/2	1/2	1/2	1/2	
3/4	83,786	3/4	70,372	3/4	56,957	3/4	43,542	3/4	30,453	3/4	17,038	3/4	3,664	3/4	3/4	3/4	3/4	3/4	
2	83,507	2	70,092	2	56,677	2	43,263	2	30,173	2	16,759	2	3,390	2		2		2	
1/4	83,228	1/4	69,813	1/4	56,398	1/4	42,983	1/4	29,894	1/4	16,479	1/4	3,135	1/4	1/4	1/4	1/4	1/4	
1/2	82,948	1/2	69,533	1/2	56,118	1/2	42,704	1/2	29,614	1/2	16,200	1/2	2,879	1/2	1/2	1/2	1/2	1/2	
3/4	82,669	3/4	69,254	3/4	55,839	3/4	42,424	3/4	29,335	3/4	15,920	3/4	2,624	3/4	3/4	3/4	3/4	3/4	
3	82,389	3	68,974	3	55,559	3	42,145	3	29,055	3	15,641	3	2,368	3		3		3	
1/4	82,110	1/4	68,695	1/4	55,280	1/4	41,873	1/4	28,776	1/4	15,361	1/4	2,159	1/4	1/4	1/4	1/4	1/4	
1/2	81,830	1/2	68,415	1/2	55,001	1/2	41,601	1/2	28,496	1/2	15,082	1/2	1,949	1/2	1/2	1/2	1/2	1/2	
3/4	81,551	3/4	68,136	3/4	54,721	3/4	41,330	3/4	28,217	3/4	14,803	3/4	1,740	3/4	3/4	3/4	3/4	3/4	
4	81,271	4	67,856	4	54,442	4	41,058	4	27,937	4	14,523	4	1,530	4		4		4	
1/4	80,992	1/4	67,577	1/4	54,162	1/4	40,787	1/4	27,658	1/4	14,244	1/4	1,367	1/4	1/4	1/4	1/4	1/4	
1/2	80,712	1/2	67,297	1/2	53,883	1/2	40,516	1/2	27,379	1/2	13,964	1/2	1,204	1/2	1/2	1/2	1/2	1/2	
3/4	80,433	3/4	67,018	3/4	53,603	3/4	40,244	3/4	27,099	3/4	13,685	3/4	1,041	3/4	3/4	3/4	3/4	3/4	
5	80,153	5	66,738	5	53,324	5	39,973	5	26,820	5	13,405	5	878	5		5		5	
1/4	79,874	1/4	66,459	1/4	53,044	1/4	39,702	1/4	26,540	1/4	13,126	1/4	762	1/4	1/4	1/4	1/4	1/4	
1/2	79,594	1/2	66,180	1/2	52,765	1/2	39,431	1/2	26,261	1/2	12,846	1/2	645	1/2	1/2	1/2	1/2	1/2	
3/4	79,315	3/4	65,900	3/4	52,485	3/4	39,159	3/4	25,981	3/4	12,567	3/4	529	3/4	3/4	3/4	3/4	3/4	
6	79,035	6	65,621	6	52,206	6	38,888	6	25,702	6	12,287	6	412	6		6		6	
1/4	78,756	1/4	65,341	1/4	51,926	1/4	38,617	1/4	25,422	1/4	12,008	1/4	342	1/4	1/4	1/4	1/4	1/4	
1/2	78,476	1/2	65,062	1/2	51,647	1/2	38,345	1/2	25,143	1/2	11,728	1/2	273	1/2	1/2	1/2	1/2	1/2	
3/4	78,197	3/4	64,782	3/4	51,367	3/4	38,074	3/4	24,863	3/4	11,449	3/4	203	3/4	3/4	3/4	3/4	3/4	
7	77,918	7	64,503	7	51,088	7	37,803	7	24,584	7	11,169	7	133	7		7		7	
1/4	77,638	1/4	64,223	1/4	50,808	1/4	37,532	1/4	24,304	1/4	10,890	1/4	110	1/4	1/4	1/4	1/4	1/4	
1/2	77,359	1/2	63,944	1/2	50,529	1/2	37,260	1/2	24,025	1/2	10,611	1/2	86	1/2	1/2	1/2	1/2	1/2	
3/4	77,079	3/4	63,664	3/4	50,249	3/4	36,989	3/4	23,745	3/4	10,331	3/4	63	3/4	3/4	3/4	3/4	3/4	
8	76,800	8	63,385	8	49,970	8	36,718	8	23,466	8	10,052	8	39	8		8		8	
1/4	76,520	1/4	63,105	1/4	49,690	1/4	36,447	1/4	23,187	1/4	9,772	1/4		1/4	1/4	1/4	1/4	1/4	
1/2	76,241	1/2	62,826	1/2	49,411	1/2	36,175	1/2	22,907	1/2	9,493	1/2		1/2	1/2	1/2	1/2	1/2	
3/4	75,961	3/4	62,546	3/4	49,132	3/4	35,904	3/4	22,628	3/4	9,213	3/4		3/4	3/4	3/4	3/4	3/4	
9	75,682	9	62,267	9	48,852	9	35,633	9	22,348	9	8,934	9		9		9		9	
1/4	75,402	1/4	61,987	1/4	48,573	1/4	35,361	1/4	22,069	1/4	8,655	1/4		1/4	1/4	1/4	1/4	1/4	
1/2	75,123	1/2	61,708	1/2	48,293	1/2	35,090	1/2	21,789	1/2	8,375	1/2		1/2	1/2	1/2	1/2	1/2	
3/4	74,843	3/4	61,428	3/4	48,014	3/4	34,819	3/4	21,510	3/4	8,096	3/4		3/4	3/4	3/4	3/4	3/4	
10	74,564	10	61,149	10	47,734	10	34,548	10	21,230	10	7,817	10		10		10		10	
1/4	74,284	1/4	60,870	1/4	47,455	1/4	34,276	1/4	20,951	1/4	7,538	1/4		1/4	1/4	1/4	1/4	1/4	
1/2	74,005	1/2	60,590	1/2	47,175	1/2	34,005	1/2	20,671	1/2	7,260	1/2		1/2	1/2	1/2	1/2	1/2	
3/4	73,725	3/4	60,311	3/4	46,896	3/4	33,734	3/4	20,392	3/4	6,981	3/4		3/4	3/4	3/4	3/4	3/4	
11	73,446	11	60,031	11	46,616	11	33,463	11	20,112	11	6,702	11		11		11		11	
1/4	73,166	1/4	59,752	1/4	46,337	1/4	33,191	1/4	19,833	1/4	6,425	1/4		1/4	1/4	1/4	1/4	1/4	
1/2	72,887	1/2	59,472	1/2	46,057	1/2	32,920	1/2	19,553	1/2	6,147	1/2		1/2	1/2	1/2	1/2	1/2	
3/4	72,607	3/4	59,193	3/4	45,778	3/4	32,649	3/4	19,274	3/4	5,869	3/4		3/4	3/4	3/4	3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/12/2019 SW
CALCULATED: 02/14/2019 CL
PRINTED: 02/16/2019

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "CBC 1409"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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		0	160,686	0	148,762	0	136,839	0	124,915	0	112,992	0	101,069	0	89,145
1/4		1/4		1/4		1/4	169,835	1/4	160,437	1/4	148,514	1/4	136,590	1/4	124,667	1/4	112,744	1/4	100,820
1/2		1/2		1/2		1/2	169,814	1/2	160,189	1/2	148,265	1/2	136,342	1/2	124,419	1/2	112,495	1/2	100,572
3/4		3/4		3/4		3/4	169,794	3/4	159,940	3/4	148,017	3/4	136,094	3/4	124,170	3/4	112,247	3/4	100,324
1		1		1		1	169,732	1	159,692	1	147,769	1	135,845	1	123,922	1	111,998	1	100,075
1/4		1/4		1/4		1/4	169,669	1/4	159,444	1/4	147,520	1/4	135,597	1/4	123,673	1/4	111,750	1/4	99,827
1/2		1/2		1/2		1/2	169,607	1/2	159,195	1/2	147,272	1/2	135,348	1/2	123,425	1/2	111,502	1/2	99,578
3/4		3/4		3/4		3/4	169,545	3/4	158,947	3/4	147,023	3/4	135,100	3/4	123,177	3/4	111,253	3/4	99,330
2		2		2		2	169,442	2	158,698	2	146,775	2	134,852	2	122,928	2	111,005	2	99,082
1/4		1/4		1/4		1/4	169,338	1/4	158,450	1/4	146,527	1/4	134,603	1/4	122,680	1/4	110,756	1/4	98,833
1/2		1/2		1/2		1/2	169,235	1/2	158,201	1/2	146,278	1/2	134,355	1/2	122,431	1/2	110,508	1/2	98,585
3/4		3/4		3/4		3/4	169,131	3/4	157,953	3/4	146,030	3/4	134,106	3/4	122,183	3/4	110,260	3/4	98,336
3		3		3		3	168,986	3	157,705	3	145,781	3	133,858	3	121,935	3	110,011	3	98,088
1/4		1/4		1/4		1/4	168,841	1/4	157,456	1/4	145,533	1/4	133,610	1/4	121,686	1/4	109,763	1/4	97,840
1/2		1/2		1/2		1/2	168,696	1/2	157,208	1/2	145,285	1/2	133,361	1/2	121,438	1/2	109,514	1/2	97,591
3/4		3/4		3/4		3/4	168,552	3/4	156,959	3/4	145,036	3/4	133,113	3/4	121,189	3/4	109,266	3/4	97,343
4		4		4		4	168,365	4	156,711	4	144,788	4	132,864	4	120,941	4	109,018	4	97,094
1/4		1/4		1/4		1/4	168,179	1/4	156,463	1/4	144,539	1/4	132,616	1/4	120,693	1/4	108,769	1/4	96,846
1/2		1/2		1/2		1/2	167,993	1/2	156,214	1/2	144,291	1/2	132,368	1/2	120,444	1/2	108,521	1/2	96,597
3/4		3/4		3/4		3/4	167,806	3/4	155,966	3/4	144,043	3/4	132,119	3/4	120,196	3/4	108,272	3/4	96,349
5		5		5		5	167,579	5	155,717	5	143,794	5	131,871	5	119,947	5	108,024	5	96,101
1/4		1/4		1/4		1/4	167,351	1/4	155,469	1/4	143,546	1/4	131,622	1/4	119,699	1/4	107,776	1/4	95,852
1/2		1/2		1/2		1/2	167,123	1/2	155,221	1/2	143,297	1/2	131,374	1/2	119,451	1/2	107,527	1/2	95,604
3/4		3/4		3/4		3/4	166,896	3/4	154,972	3/4	143,049	3/4	131,126	3/4	119,202	3/4	107,279	3/4	95,355
6		6		6		6	166,647	6	154,724	6	142,800	6	130,877	6	118,954	6	107,030	6	95,107
1/4		1/4		1/4		1/4	166,399	1/4	154,475	1/4	142,552	1/4	130,629	1/4	118,705	1/4	106,782	1/4	94,859
1/2		1/2		1/2		1/2	166,150	1/2	154,227	1/2	142,304	1/2	130,380	1/2	118,457	1/2	106,534	1/2	94,610
3/4		3/4		3/4		3/4	165,902	3/4	153,979	3/4	142,055	3/4	130,132	3/4	118,209	3/4	106,285	3/4	94,362
7		7		7		7	165,654	7	153,730	7	141,807	7	129,884	7	117,960	7	106,037	7	94,113
1/4		1/4		1/4		1/4	165,405	1/4	153,482	1/4	141,558	1/4	129,635	1/4	117,712	1/4	105,788	1/4	93,865
1/2		1/2		1/2		1/2	165,157	1/2	153,233	1/2	141,310	1/2	129,387	1/2	117,463	1/2	105,540	1/2	93,617
3/4		3/4		3/4		3/4	164,908	3/4	152,985	3/4	141,062	3/4	129,138	3/4	117,215	3/4	105,292	3/4	93,368
8		8		8		8	164,660	8	152,737	8	140,813	8	128,890	8	116,967	8	105,043	8	93,120
1/4		1/4		1/4		1/4	164,412	1/4	152,488	1/4	140,565	1/4	128,642	1/4	116,718	1/4	104,795	1/4	92,871
1/2		1/2		1/2		1/2	164,163	1/2	152,240	1/2	140,316	1/2	128,393	1/2	116,470	1/2	104,546	1/2	92,623
3/4		3/4		3/4		3/4	163,915	3/4	151,991	3/4	140,068	3/4	128,145	3/4	116,221	3/4	104,298	3/4	92,375
9		9		9		9	163,666	9	151,743	9	139,820	9	127,896	9	115,973	9	104,050	9	92,126
1/4		1/4		1/4		1/4	163,418	1/4	151,495	1/4	139,571	1/4	127,648	1/4	115,725	1/4	103,801	1/4	91,878
1/2		1/2		1/2		1/2	163,170	1/2	151,246	1/2	139,323	1/2	127,399	1/2	115,476	1/2	103,553	1/2	91,629
3/4		3/4		3/4		3/4	162,921	3/4	150,998	3/4	139,074	3/4	127,151	3/4	115,228	3/4	103,304	3/4	91,381
10		10		10		10	162,673	10	150,749	10	138,826	10	126,903	10	114,979	10	103,056	10	91,133
1/4		1/4		1/4		1/4	162,424	1/4	150,501	1/4	138,578	1/4	126,654	1/4	114,731	1/4	102,808	1/4	90,884
1/2		1/2		1/2		1/2	162,176	1/2	150,253	1/2	138,329	1/2	126,406	1/2	114,483	1/2	102,559	1/2	90,636
3/4		3/4		3/4		3/4	161,928	3/4	150,004	3/4	138,081	3/4	126,157	3/4	114,234	3/4	102,311	3/4	90,387
11		11		11		11	161,679	11	149,756	11	137,832	11	125,909	11	113,986	11	102,062	11	90,139
1/4		1/4		1/4		1/4	161,431	1/4	149,507	1/4	137,584	1/4	125,661	1/4	113,737	1/4	101,814	1/4	89,891
1/2		1/2		1/2		1/2	161,182	1/2	149,259	1/2	137,336	1/2	125,412	1/2	113,489	1/2	101,566	1/2	89,642
3/4		3/4		3/4		3/4	160,934	3/4	149,011	3/4	137,087	3/4	125,164	3/4	113,241	3/4	101,317	3/4	89,394

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 THREADS ON "MMC" VALVE

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 1409"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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	77,222	0	65,299	0	53,375	0	41,452	0	29,549	0	17,631	0	5,714	0		0		0	
1/4	76,974	1/4	65,050	1/4	53,127	1/4	41,204	1/4	29,302	1/4	17,383	1/4	5,467	1/4		1/4		1/4	
1/2	76,725	1/2	64,802	1/2	52,879	1/2	40,955	1/2	29,054	1/2	17,135	1/2	5,220	1/2		1/2		1/2	
3/4	76,477	3/4	64,553	3/4	52,630	3/4	40,707	3/4	28,806	3/4	16,886	3/4	4,973	3/4		3/4		3/4	
1	76,228	1	64,305	1	52,382	1	40,458	1	28,558	1	16,638	1	4,728	1		1		1	
1/4	75,980	1/4	64,057	1/4	52,133	1/4	40,210	1/4	28,310	1/4	16,389	1/4	4,482	1/4		1/4		1/4	
1/2	75,732	1/2	63,808	1/2	51,885	1/2	39,962	1/2	28,062	1/2	16,141	1/2	4,236	1/2		1/2		1/2	
3/4	75,483	3/4	63,560	3/4	51,637	3/4	39,713	3/4	27,814	3/4	15,893	3/4	3,991	3/4		3/4		3/4	
2	75,235	2	63,311	2	51,388	2	39,465	2	27,566	2	15,644	2	3,747	2		2		2	
1/4	74,986	1/4	63,063	1/4	51,140	1/4	39,216	1/4	27,318	1/4	15,396	1/4	3,504	1/4		1/4		1/4	
1/2	74,738	1/2	62,815	1/2	50,891	1/2	38,968	1/2	27,070	1/2	15,147	1/2	3,260	1/2		1/2		1/2	
3/4	74,490	3/4	62,566	3/4	50,643	3/4	38,720	3/4	26,822	3/4	14,899	3/4	3,017	3/4		3/4		3/4	
3	74,241	3	62,318	3	50,395	3	38,471	3	26,574	3	14,651	3	2,790	3		3		3	
1/4	73,993	1/4	62,069	1/4	50,146	1/4	38,223	1/4	26,325	1/4	14,402	1/4	2,563	1/4		1/4		1/4	
1/2	73,744	1/2	61,821	1/2	49,898	1/2	37,974	1/2	26,077	1/2	14,154	1/2	2,336	1/2		1/2		1/2	
3/4	73,496	3/4	61,573	3/4	49,649	3/4	37,726	3/4	25,828	3/4	13,906	3/4	2,109	3/4		3/4		3/4	
4	73,248	4	61,324	4	49,401	4	37,478	4	25,580	4	13,657	4	1,922	4		4		4	
1/4	72,999	1/4	61,076	1/4	49,152	1/4	37,229	1/4	25,332	1/4	13,409	1/4	1,736	1/4		1/4		1/4	
1/2	72,751	1/2	60,827	1/2	48,904	1/2	36,981	1/2	25,083	1/2	13,160	1/2	1,550	1/2		1/2		1/2	
3/4	72,502	3/4	60,579	3/4	48,656	3/4	36,732	3/4	24,835	3/4	12,912	3/4	1,364	3/4		3/4		3/4	
5	72,254	5	60,331	5	48,407	5	36,485	5	24,586	5	12,664	5	1,219	5		5		5	
1/4	72,006	1/4	60,082	1/4	48,159	1/4	36,237	1/4	24,338	1/4	12,415	1/4	1,074	1/4		1/4		1/4	
1/2	71,757	1/2	59,834	1/2	47,910	1/2	35,989	1/2	24,090	1/2	12,167	1/2	929	1/2		1/2		1/2	
3/4	71,509	3/4	59,585	3/4	47,662	3/4	35,742	3/4	23,841	3/4	11,918	3/4	784	3/4		3/4		3/4	
6	71,260	6	59,337	6	47,414	6	35,494	6	23,593	6	11,670	6	681	6		6		6	
1/4	71,012	1/4	59,089	1/4	47,165	1/4	35,246	1/4	23,344	1/4	11,422	1/4	577	1/4		1/4		1/4	
1/2	70,764	1/2	58,840	1/2	46,917	1/2	34,999	1/2	23,096	1/2	11,173	1/2	474	1/2		1/2		1/2	
3/4	70,515	3/4	58,592	3/4	46,668	3/4	34,751	3/4	22,848	3/4	10,925	3/4	370	3/4		3/4		3/4	
7	70,267	7	58,343	7	46,420	7	34,503	7	22,599	7	10,676	7	308	7		7		7	
1/4	70,018	1/4	58,095	1/4	46,172	1/4	34,255	1/4	22,351	1/4	10,428	1/4	246	1/4		1/4		1/4	
1/2	69,770	1/2	57,847	1/2	45,923	1/2	34,008	1/2	22,103	1/2	10,180	1/2	184	1/2		1/2		1/2	
3/4	69,522	3/4	57,598	3/4	45,675	3/4	33,760	3/4	21,854	3/4	9,931	3/4	122	3/4		3/4		3/4	
8	69,273	8	57,350	8	45,426	8	33,512	8	21,606	8	9,683	8	101	8		8		8	
1/4	69,025	1/4	57,101	1/4	45,178	1/4	33,265	1/4	21,357	1/4	9,434	1/4	80	1/4		1/4		1/4	
1/2	68,776	1/2	56,853	1/2	44,930	1/2	33,017	1/2	21,109	1/2	9,186	1/2	60	1/2		1/2		1/2	
3/4	68,528	3/4	56,605	3/4	44,681	3/4	32,769	3/4	20,861	3/4	8,938	3/4	39	3/4		3/4		3/4	
9	68,280	9	56,356	9	44,433	9	32,522	9	20,612	9	8,689	9		9		9		9	
1/4	68,031	1/4	56,108	1/4	44,184	1/4	32,274	1/4	20,364	1/4	8,441	1/4		1/4		1/4		1/4	
1/2	67,783	1/2	55,859	1/2	43,936	1/2	32,026	1/2	20,115	1/2	8,193	1/2		1/2		1/2		1/2	
3/4	67,534	3/4	55,611	3/4	43,688	3/4	31,779	3/4	19,867	3/4	7,944	3/4		3/4		3/4		3/4	
10	67,286	10	55,363	10	43,439	10	31,531	10	19,619	10	7,696	10		10		10		10	
1/4	67,038	1/4	55,114	1/4	43,191	1/4	31,283	1/4	19,370	1/4	7,448	1/4		1/4		1/4		1/4	
1/2	66,789	1/2	54,866	1/2	42,942	1/2	31,036	1/2	19,122	1/2	7,200	1/2		1/2		1/2		1/2	
3/4	66,541	3/4	54,617	3/4	42,694	3/4	30,788	3/4	18,873	3/4	6,951	3/4		3/4		3/4		3/4	
11	66,292	11	54,369	11	42,446	11	30,540	11	18,625	11	6,704	11		11		11		11	
1/4	66,044	1/4	54,121	1/4	42,197	1/4	30,292	1/4	18,377	1/4	6,456	1/4		1/4		1/4		1/4	
1/2	65,795	1/2	53,872	1/2	41,949	1/2	30,045	1/2	18,128	1/2	6,208	1/2		1/2		1/2		1/2	
3/4	65,547	3/4	53,624	3/4	41,700	3/4	29,797	3/4	17,880	3/4	5,961	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
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