



BARGE "CBC 319"

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 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 4'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 STBD IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 STBD, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 258'-06"

December 19, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 319"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	616	0	15,606	0	31,365	0	47,032	0	62,776	0	78,535	0	94,294	0	110,052	0	125,811	0	141,569
1/4	811	1/4	15,935	1/4	31,693	1/4	47,358	1/4	63,104	1/4	78,863	1/4	94,622	1/4	110,381	1/4	126,140	1/4	141,897
1/2	1,006	1/2	16,263	1/2	32,021	1/2	47,684	1/2	63,433	1/2	79,191	1/2	94,950	1/2	110,709	1/2	126,468	1/2	142,225
3/4	1,200	3/4	16,591	3/4	32,350	3/4	48,009	3/4	63,761	3/4	79,520	3/4	95,279	3/4	111,037	3/4	126,796	3/4	142,553
1	1,395	1	16,920	1	32,678	1	48,335	1	64,089	1	79,848	1	95,607	1	111,366	1	127,125	1	142,882
1/4	1,672	1/4	17,248	1/4	33,006	1/4	48,662	1/4	64,417	1/4	80,176	1/4	95,935	1/4	111,694	1/4	127,453	1/4	143,210
1/2	1,949	1/2	17,576	1/2	33,335	1/2	48,990	1/2	64,746	1/2	80,505	1/2	96,263	1/2	112,022	1/2	127,781	1/2	143,538
3/4	2,226	3/4	17,904	3/4	33,663	3/4	49,318	3/4	65,074	3/4	80,833	3/4	96,592	3/4	112,351	3/4	128,109	3/4	143,866
2	2,503	2	18,233	2	33,991	2	49,645	2	65,402	2	81,161	2	96,920	2	112,679	2	128,438	2	144,194
1/4	2,825	1/4	18,561	1/4	34,319	1/4	49,973	1/4	65,731	1/4	81,490	1/4	97,248	1/4	113,007	1/4	128,766	1/4	144,523
1/2	3,147	1/2	18,889	1/2	34,648	1/2	50,301	1/2	66,059	1/2	81,818	1/2	97,577	1/2	113,336	1/2	129,094	1/2	144,851
3/4	3,469	3/4	19,218	3/4	34,976	3/4	50,629	3/4	66,387	3/4	82,146	3/4	97,905	3/4	113,664	3/4	129,423	3/4	145,179
3	3,790	3	19,546	3	35,304	3	50,957	3	66,716	3	82,474	3	98,233	3	113,992	3	129,751	3	145,507
1/4	4,118	1/4	19,874	1/4	35,631	1/4	51,285	1/4	67,044	1/4	82,803	1/4	98,562	1/4	114,320	1/4	130,079	1/4	145,836
1/2	4,446	1/2	20,203	1/2	35,957	1/2	51,613	1/2	67,372	1/2	83,131	1/2	98,890	1/2	114,649	1/2	130,408	1/2	146,164
3/4	4,773	3/4	20,531	3/4	36,284	3/4	51,942	3/4	67,701	3/4	83,459	3/4	99,218	3/4	114,977	3/4	130,736	3/4	146,492
4	5,101	4	20,859	4	36,611	4	52,270	4	68,029	4	83,788	4	99,547	4	115,305	4	131,064	4	146,820
1/4	5,429	1/4	21,187	1/4	36,937	1/4	52,598	1/4	68,357	1/4	84,116	1/4	99,875	1/4	115,634	1/4	131,393	1/4	147,149
1/2	5,758	1/2	21,516	1/2	37,263	1/2	52,927	1/2	68,685	1/2	84,444	1/2	100,203	1/2	115,962	1/2	131,721	1/2	147,477
3/4	6,086	3/4	21,844	3/4	37,589	3/4	53,255	3/4	69,014	3/4	84,773	3/4	100,531	3/4	116,290	3/4	132,049	3/4	147,805
5	6,414	5	22,172	5	37,916	5	53,583	5	69,342	5	85,101	5	100,860	5	116,619	5	132,377	5	148,133
1/4	6,742	1/4	22,501	1/4	38,241	1/4	53,912	1/4	69,670	1/4	85,429	1/4	101,188	1/4	116,947	1/4	132,706	1/4	148,461
1/2	7,071	1/2	22,829	1/2	38,567	1/2	54,240	1/2	69,999	1/2	85,758	1/2	101,516	1/2	117,275	1/2	133,034	1/2	148,790
3/4	7,399	3/4	23,157	3/4	38,893	3/4	54,568	3/4	70,327	3/4	86,086	3/4	101,845	3/4	117,604	3/4	133,362	3/4	149,118
6	7,727	6	23,486	6	39,218	6	54,896	6	70,655	6	86,414	6	102,173	6	117,932	6	133,691	6	149,446
1/4	8,055	1/4	23,814	1/4	39,544	1/4	55,225	1/4	70,984	1/4	86,742	1/4	102,501	1/4	118,260	1/4	134,019	1/4	149,774
1/2	8,384	1/2	24,142	1/2	39,870	1/2	55,553	1/2	71,312	1/2	87,071	1/2	102,830	1/2	118,588	1/2	134,347	1/2	150,103
3/4	8,712	3/4	24,470	3/4	40,195	3/4	55,881	3/4	71,640	3/4	87,399	3/4	103,158	3/4	118,917	3/4	134,676	3/4	150,431
7	9,040	7	24,799	7	40,521	7	56,210	7	71,969	7	87,727	7	103,486	7	119,245	7	135,004	7	150,759
1/4	9,369	1/4	25,127	1/4	40,846	1/4	56,538	1/4	72,297	1/4	88,056	1/4	103,815	1/4	119,573	1/4	135,332	1/4	151,087
1/2	9,697	1/2	25,455	1/2	41,172	1/2	56,866	1/2	72,625	1/2	88,384	1/2	104,143	1/2	119,902	1/2	135,660	1/2	151,416
3/4	10,025	3/4	25,784	3/4	41,498	3/4	57,195	3/4	72,953	3/4	88,712	3/4	104,471	3/4	120,230	3/4	135,989	3/4	151,744
8	10,354	8	26,112	8	41,823	8	57,523	8	73,282	8	89,041	8	104,799	8	120,558	8	136,317	8	152,072
1/4	10,682	1/4	26,440	1/4	42,149	1/4	57,851	1/4	73,610	1/4	89,369	1/4	105,128	1/4	120,887	1/4	136,645	1/4	152,400
1/2	11,010	1/2	26,769	1/2	42,474	1/2	58,180	1/2	73,938	1/2	89,697	1/2	105,456	1/2	121,215	1/2	136,973	1/2	152,729
3/4	11,338	3/4	27,097	3/4	42,800	3/4	58,508	3/4	74,267	3/4	90,026	3/4	105,784	3/4	121,543	3/4	137,302	3/4	153,057
9	11,667	9	27,425	9	43,125	9	58,836	9	74,595	9	90,354	9	106,113	9	121,872	9	137,630	9	153,385
1/4	11,995	1/4	27,753	1/4	43,451	1/4	59,164	1/4	74,923	1/4	90,682	1/4	106,441	1/4	122,200	1/4	137,958	1/4	153,713
1/2	12,323	1/2	28,082	1/2	43,777	1/2	59,493	1/2	75,252	1/2	91,010	1/2	106,769	1/2	122,528	1/2	138,286	1/2	154,041
3/4	12,652	3/4	28,410	3/4	44,102	3/4	59,821	3/4	75,580	3/4	91,339	3/4	107,098	3/4	122,857	3/4	138,615	3/4	154,370
10	12,980	10	28,738	10	44,428	10	60,149	10	75,908	10	91,667	10	107,426	10	123,185	10	138,943	10	154,698
1/4	13,308	1/4	29,067	1/4	44,753	1/4	60,478	1/4	76,237	1/4	91,995	1/4	107,754	1/4	123,513	1/4	139,271	1/4	155,026
1/2	13,637	1/2	29,395	1/2	45,079	1/2	60,806	1/2	76,565	1/2	92,324	1/2	108,083	1/2	123,841	1/2	139,599	1/2	155,354
3/4	13,965	3/4	29,723	3/4	45,404	3/4	61,134	3/4	76,893	3/4	92,652	3/4	108,411	3/4	124,170	3/4	139,927	3/4	155,683
11	14,293	11	30,052	11	45,730	11	61,463	11	77,222	11	92,980	11	108,739	11	124,498	11	140,256	11	156,011
1/4	14,621	1/4	30,380	1/4	46,056	1/4	61,791	1/4	77,550	1/4	93,309	1/4	109,068	1/4	124,826	1/4	140,584	1/4	156,339
1/2	14,950	1/2	30,708	1/2	46,381	1/2	62,119	1/2	77,878	1/2	93,637	1/2	109,396	1/2	125,155	1/2	140,912	1/2	156,667
3/4	15,278	3/4	31,036	3/4	46,707	3/4	62,448	3/4	78,206	3/4	93,965	3/4	109,724	3/4	125,483	3/4	141,240	3/4	156,996

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "CBC 319"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	157,324	0	173,079	0	188,762	0	204,429	0	220,009	0		0		0		0		0	
1/4	157,652	1/4	173,407	1/4	189,088	1/4	204,756	1/4	220,323	1/4		1/4		1/4		1/4		1/4	
1/2	157,980	1/2	173,735	1/2	189,415	1/2	205,082	1/2	220,638	1/2		1/2		1/2		1/2		1/2	
3/4	158,308	3/4	174,064	3/4	189,741	3/4	205,409	3/4	220,952	3/4		3/4		3/4		3/4		3/4	
1	158,637	1	174,392	1	190,068	1	205,735	1	221,267	1		1		1		1		1	
1/4	158,965	1/4	174,720	1/4	190,394	1/4	206,061	1/4	221,541	1/4		1/4		1/4		1/4		1/4	
1/2	159,293	1/2	175,048	1/2	190,720	1/2	206,388	1/2	221,815	1/2		1/2		1/2		1/2		1/2	
3/4	159,621	3/4	175,376	3/4	191,047	3/4	206,714	3/4	222,089	3/4		3/4		3/4		3/4		3/4	
2	159,950	2	175,705	2	191,373	2	207,041	2	222,363	2		2		2		2		2	
1/4	160,278	1/4	176,031	1/4	191,700	1/4	207,367	1/4	222,583	1/4		1/4		1/4		1/4		1/4	
1/2	160,606	1/2	176,358	1/2	192,026	1/2	207,693	1/2	222,804	1/2		1/2		1/2		1/2		1/2	
3/4	160,934	3/4	176,685	3/4	192,352	3/4	208,020	3/4	223,024	3/4		3/4		3/4		3/4		3/4	
3	161,263	3	177,011	3	192,679	3	208,346	3	223,244	3		3		3		3		3	
1/4	161,591	1/4	177,338	1/4	193,005	1/4	208,673	1/4	223,410	1/4		1/4		1/4		1/4		1/4	
1/2	161,919	1/2	177,664	1/2	193,332	1/2	208,999	1/2	223,576	1/2		1/2		1/2		1/2		1/2	
3/4	162,247	3/4	177,990	3/4	193,658	3/4	209,326	3/4		3/4		3/4		3/4		3/4		3/4	
4	162,575	4	178,317	4	193,984	4	209,652	4		4		4		4		4		4	
1/4	162,904	1/4	178,643	1/4	194,311	1/4	209,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,232	1/2	178,970	1/2	194,637	1/2	210,305	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,560	3/4	179,296	3/4	194,964	3/4	210,631	3/4		3/4		3/4		3/4		3/4		3/4	
5	163,888	5	179,623	5	195,290	5	210,958	5		5		5		5		5		5	
1/4	164,217	1/4	179,949	1/4	195,616	1/4	211,284	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,545	1/2	180,275	1/2	195,943	1/2	211,610	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,873	3/4	180,602	3/4	196,269	3/4	211,937	3/4		3/4		3/4		3/4		3/4		3/4	
6	165,201	6	180,928	6	196,596	6	212,263	6		6		6		6		6		6	
1/4	165,530	1/4	181,255	1/4	196,922	1/4	212,590	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,858	1/2	181,581	1/2	197,248	1/2	212,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,186	3/4	181,907	3/4	197,575	3/4	213,242	3/4		3/4		3/4		3/4		3/4		3/4	
7	166,514	7	182,234	7	197,901	7	213,569	7		7		7		7		7		7	
1/4	166,842	1/4	182,560	1/4	198,228	1/4	213,892	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,171	1/2	182,887	1/2	198,554	1/2	214,215	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,499	3/4	183,213	3/4	198,881	3/4	214,539	3/4		3/4		3/4		3/4		3/4		3/4	
8	167,827	8	183,539	8	199,207	8	214,862	8		8		8		8		8		8	
1/4	168,155	1/4	183,866	1/4	199,533	1/4	215,185	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,484	1/2	184,192	1/2	199,860	1/2	215,507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,812	3/4	184,519	3/4	200,186	3/4	215,830	3/4		3/4		3/4		3/4		3/4		3/4	
9	169,140	9	184,845	9	200,513	9	216,153	9		9		9		9		9		9	
1/4	169,468	1/4	185,171	1/4	200,839	1/4	216,475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	169,797	1/2	185,498	1/2	201,165	1/2	216,797	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	170,125	3/4	185,824	3/4	201,492	3/4	217,120	3/4		3/4		3/4		3/4		3/4		3/4	
10	170,453	10	186,151	10	201,818	10	217,442	10		10		10		10		10		10	
1/4	170,781	1/4	186,477	1/4	202,145	1/4	217,763	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	171,109	1/2	186,803	1/2	202,471	1/2	218,085	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	171,438	3/4	187,130	3/4	202,797	3/4	218,406	3/4		3/4		3/4		3/4		3/4		3/4	
11	171,766	11	187,456	11	203,124	11	218,728	11		11		11		11		11		11	
1/4	172,094	1/4	187,783	1/4	203,450	1/4	219,048	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	172,422	1/2	188,109	1/2	203,777	1/2	219,368	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172,751	3/4	188,435	3/4	204,103	3/4	219,689	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	616	0	15,606	0	31,365	0	47,085	0	62,837	0	78,596	0	94,355	0	110,114	0	125,873	0	141,630
1/4	811	1/4	15,935	1/4	31,693	1/4	47,412	1/4	63,165	1/4	78,924	1/4	94,683	1/4	110,442	1/4	126,201	1/4	141,958
1/2	1,006	1/2	16,263	1/2	32,021	1/2	47,740	1/2	63,494	1/2	79,253	1/2	95,012	1/2	110,770	1/2	126,529	1/2	142,286
3/4	1,200	3/4	16,591	3/4	32,350	3/4	48,067	3/4	63,822	3/4	79,581	3/4	95,340	3/4	111,099	3/4	126,858	3/4	142,615
1	1,395	1	16,920	1	32,678	1	48,395	1	64,150	1	79,909	1	95,668	1	111,427	1	127,186	1	142,943
1/4	1,672	1/4	17,248	1/4	33,006	1/4	48,723	1/4	64,479	1/4	80,238	1/4	95,996	1/4	111,755	1/4	127,514	1/4	143,271
1/2	1,949	1/2	17,576	1/2	33,334	1/2	49,051	1/2	64,807	1/2	80,566	1/2	96,325	1/2	112,084	1/2	127,842	1/2	143,599
3/4	2,226	3/4	17,904	3/4	33,662	3/4	49,379	3/4	65,135	3/4	80,894	3/4	96,653	3/4	112,412	3/4	128,171	3/4	143,928
2	2,503	2	18,233	2	33,990	2	49,707	2	65,464	2	81,223	2	96,981	2	112,740	2	128,499	2	144,256
1/4	2,825	1/4	18,561	1/4	34,317	1/4	50,034	1/4	65,792	1/4	81,551	1/4	97,310	1/4	113,069	1/4	128,827	1/4	144,584
1/2	3,147	1/2	18,889	1/2	34,645	1/2	50,362	1/2	66,120	1/2	81,879	1/2	97,638	1/2	113,397	1/2	129,156	1/2	144,912
3/4	3,469	3/4	19,218	3/4	34,973	3/4	50,690	3/4	66,449	3/4	82,207	3/4	97,966	3/4	113,725	3/4	129,484	3/4	145,240
3	3,790	3	19,546	3	35,301	3	51,018	3	66,777	3	82,536	3	98,295	3	114,053	3	129,812	3	145,569
1/4	4,118	1/4	19,874	1/4	35,629	1/4	51,346	1/4	67,105	1/4	82,864	1/4	98,623	1/4	114,382	1/4	130,141	1/4	145,897
1/2	4,446	1/2	20,203	1/2	35,956	1/2	51,675	1/2	67,434	1/2	83,192	1/2	98,951	1/2	114,710	1/2	130,469	1/2	146,225
3/4	4,773	3/4	20,531	3/4	36,284	3/4	52,003	3/4	67,762	3/4	83,521	3/4	99,280	3/4	115,038	3/4	130,797	3/4	146,553
4	5,101	4	20,859	4	36,612	4	52,331	4	68,090	4	83,849	4	99,608	4	115,367	4	131,126	4	146,882
1/4	5,429	1/4	21,187	1/4	36,940	1/4	52,660	1/4	68,418	1/4	84,177	1/4	99,936	1/4	115,695	1/4	131,454	1/4	147,210
1/2	5,758	1/2	21,516	1/2	37,268	1/2	52,988	1/2	68,747	1/2	84,506	1/2	100,264	1/2	116,023	1/2	131,782	1/2	147,538
3/4	6,086	3/4	21,844	3/4	37,596	3/4	53,316	3/4	69,075	3/4	84,834	3/4	100,593	3/4	116,352	3/4	132,110	3/4	147,866
5	6,414	5	22,172	5	37,923	5	53,645	5	69,403	5	85,162	5	100,921	5	116,680	5	132,439	5	148,195
1/4	6,742	1/4	22,501	1/4	38,251	1/4	53,973	1/4	69,732	1/4	85,491	1/4	101,249	1/4	117,008	1/4	132,767	1/4	148,523
1/2	7,071	1/2	22,829	1/2	38,578	1/2	54,301	1/2	70,060	1/2	85,819	1/2	101,578	1/2	117,337	1/2	133,095	1/2	148,851
3/4	7,399	3/4	23,157	3/4	38,905	3/4	54,629	3/4	70,388	3/4	86,147	3/4	101,906	3/4	117,665	3/4	133,424	3/4	149,179
6	7,727	6	23,486	6	39,232	6	54,958	6	70,717	6	86,475	6	102,234	6	117,993	6	133,752	6	149,507
1/4	8,055	1/4	23,814	1/4	39,559	1/4	55,286	1/4	71,045	1/4	86,804	1/4	102,563	1/4	118,321	1/4	134,080	1/4	149,836
1/2	8,384	1/2	24,142	1/2	39,887	1/2	55,614	1/2	71,373	1/2	87,132	1/2	102,891	1/2	118,650	1/2	134,409	1/2	150,164
3/4	8,712	3/4	24,470	3/4	40,214	3/4	55,943	3/4	71,702	3/4	87,460	3/4	103,219	3/4	118,978	3/4	134,737	3/4	150,492
7	9,040	7	24,799	7	40,541	7	56,271	7	72,030	7	87,789	7	103,548	7	119,306	7	135,065	7	150,820
1/4	9,369	1/4	25,127	1/4	40,868	1/4	56,599	1/4	72,358	1/4	88,117	1/4	103,876	1/4	119,635	1/4	135,393	1/4	151,149
1/2	9,697	1/2	25,455	1/2	41,195	1/2	56,928	1/2	72,686	1/2	88,445	1/2	104,204	1/2	119,963	1/2	135,722	1/2	151,477
3/4	10,025	3/4	25,784	3/4	41,522	3/4	57,256	3/4	73,015	3/4	88,774	3/4	104,532	3/4	120,291	3/4	136,050	3/4	151,805
8	10,354	8	26,112	8	41,849	8	57,584	8	73,343	8	89,102	8	104,861	8	120,620	8	136,378	8	152,133
1/4	10,682	1/4	26,440	1/4	42,176	1/4	57,913	1/4	73,671	1/4	89,430	1/4	105,189	1/4	120,948	1/4	136,706	1/4	152,462
1/2	11,010	1/2	26,769	1/2	42,503	1/2	58,241	1/2	74,000	1/2	89,759	1/2	105,517	1/2	121,276	1/2	137,035	1/2	152,790
3/4	11,338	3/4	27,097	3/4	42,831	3/4	58,569	3/4	74,328	3/4	90,087	3/4	105,846	3/4	121,605	3/4	137,363	3/4	153,118
9	11,667	9	27,425	9	43,158	9	58,897	9	74,656	9	90,415	9	106,174	9	121,933	9	137,691	9	153,446
1/4	11,995	1/4	27,753	1/4	43,485	1/4	59,226	1/4	74,985	1/4	90,743	1/4	106,502	1/4	122,261	1/4	138,019	1/4	153,774
1/2	12,323	1/2	28,082	1/2	43,812	1/2	59,554	1/2	75,313	1/2	91,072	1/2	106,831	1/2	122,589	1/2	138,348	1/2	154,103
3/4	12,652	3/4	28,410	3/4	44,139	3/4	59,882	3/4	75,641	3/4	91,400	3/4	107,159	3/4	122,918	3/4	138,676	3/4	154,431
10	12,980	10	28,738	10	44,466	10	60,211	10	75,970	10	91,728	10	107,487	10	123,246	10	139,004	10	154,759
1/4	13,308	1/4	29,067	1/4	44,793	1/4	60,539	1/4	76,298	1/4	92,057	1/4	107,816	1/4	123,574	1/4	139,332	1/4	155,087
1/2	13,637	1/2	29,395	1/2	45,120	1/2	60,867	1/2	76,626	1/2	92,385	1/2	108,144	1/2	123,903	1/2	139,661	1/2	155,416
3/4	13,965	3/4	29,723	3/4	45,447	3/4	61,196	3/4	76,954	3/4	92,713	3/4	108,472	3/4	124,231	3/4	139,989	3/4	155,744
11	14,293	11	30,052	11	45,775	11	61,524	11	77,283	11	93,042	11	108,800	11	124,559	11	140,317	11	156,072
1/4	14,621	1/4	30,380	1/4	46,102	1/4	61,852	1/4	77,611	1/4	93,370	1/4	109,129	1/4	124,888	1/4	140,645	1/4	156,400
1/2	14,950	1/2	30,708	1/2	46,430	1/2	62,181	1/2	77,939	1/2	93,698	1/2	109,457	1/2	125,216	1/2	140,973	1/2	156,729
3/4	15,278	3/4	31,036	3/4	46,757	3/4	62,509	3/4	78,268	3/4	94,027	3/4	109,785	3/4	125,544	3/4	141,302	3/4	157,057

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "CBC 319"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	157,385	0	173,140	0	188,823	0	204,491	0	220,070	0		0		0		0		0	
1/4	157,713	1/4	173,468	1/4	189,150	1/4	204,817	1/4	220,385	1/4		1/4		1/4		1/4		1/4	
1/2	158,042	1/2	173,797	1/2	189,476	1/2	205,144	1/2	220,699	1/2		1/2		1/2		1/2		1/2	
3/4	158,370	3/4	174,125	3/4	189,802	3/4	205,470	3/4	221,014	3/4		3/4		3/4		3/4		3/4	
1	158,698	1	174,453	1	190,129	1	205,796	1	221,328	1		1		1		1		1	
1/4	159,026	1/4	174,781	1/4	190,455	1/4	206,123	1/4	221,602	1/4		1/4		1/4		1/4		1/4	
1/2	159,354	1/2	175,110	1/2	190,782	1/2	206,449	1/2	221,876	1/2		1/2		1/2		1/2		1/2	
3/4	159,683	3/4	175,438	3/4	191,108	3/4	206,776	3/4	222,150	3/4		3/4		3/4		3/4		3/4	
2	160,011	2	175,766	2	191,434	2	207,102	2	222,424	2		2		2		2		2	
1/4	160,339	1/4	176,093	1/4	191,761	1/4	207,428	1/4	222,644	1/4		1/4		1/4		1/4		1/4	
1/2	160,667	1/2	176,419	1/2	192,087	1/2	207,755	1/2	222,865	1/2		1/2		1/2		1/2		1/2	
3/4	160,996	3/4	176,746	3/4	192,414	3/4	208,081	3/4	223,085	3/4		3/4		3/4		3/4		3/4	
3	161,324	3	177,073	3	192,740	3	208,408	3	223,306	3		3		3		3		3	
1/4	161,652	1/4	177,399	1/4	193,066	1/4	208,734	1/4	223,471	1/4		1/4		1/4		1/4		1/4	
1/2	161,980	1/2	177,725	1/2	193,393	1/2	209,060	1/2	223,637	1/2		1/2		1/2		1/2		1/2	
3/4	162,309	3/4	178,052	3/4	193,719	3/4	209,387	3/4		3/4		3/4		3/4		3/4		3/4	
4	162,637	4	178,378	4	194,046	4	209,713	4		4		4		4		4		4	
1/4	162,965	1/4	178,705	1/4	194,372	1/4	210,040	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,293	1/2	179,031	1/2	194,699	1/2	210,366	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,621	3/4	179,357	3/4	195,025	3/4	210,692	3/4		3/4		3/4		3/4		3/4		3/4	
5	163,950	5	179,684	5	195,351	5	211,019	5		5		5		5		5		5	
1/4	164,278	1/4	180,010	1/4	195,678	1/4	211,345	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,606	1/2	180,337	1/2	196,004	1/2	211,672	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,934	3/4	180,663	3/4	196,331	3/4	211,998	3/4		3/4		3/4		3/4		3/4		3/4	
6	165,263	6	180,989	6	196,657	6	212,324	6		6		6		6		6		6	
1/4	165,591	1/4	181,316	1/4	196,983	1/4	212,651	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,919	1/2	181,642	1/2	197,310	1/2	212,977	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,247	3/4	181,969	3/4	197,636	3/4	213,304	3/4		3/4		3/4		3/4		3/4		3/4	
7	166,576	7	182,295	7	197,963	7	213,630	7		7		7		7		7		7	
1/4	166,904	1/4	182,621	1/4	198,289	1/4	213,953	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,232	1/2	182,948	1/2	198,615	1/2	214,277	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,560	3/4	183,274	3/4	198,942	3/4	214,600	3/4		3/4		3/4		3/4		3/4		3/4	
8	167,888	8	183,601	8	199,268	8	214,923	8		8		8		8		8		8	
1/4	168,217	1/4	183,927	1/4	199,595	1/4	215,246	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,545	1/2	184,253	1/2	199,921	1/2	215,569	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,873	3/4	184,580	3/4	200,247	3/4	215,891	3/4		3/4		3/4		3/4		3/4		3/4	
9	169,201	9	184,906	9	200,574	9	216,214	9		9		9		9		9		9	
1/4	169,530	1/4	185,233	1/4	200,900	1/4	216,536	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	169,858	1/2	185,559	1/2	201,227	1/2	216,859	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	170,186	3/4	185,886	3/4	201,553	3/4	217,181	3/4		3/4		3/4		3/4		3/4		3/4	
10	170,514	10	186,212	10	201,879	10	217,503	10		10		10		10		10		10	
1/4	170,843	1/4	186,538	1/4	202,206	1/4	217,825	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	171,171	1/2	186,865	1/2	202,532	1/2	218,146	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	171,499	3/4	187,191	3/4	202,859	3/4	218,468	3/4		3/4		3/4		3/4		3/4		3/4	
11	171,827	11	187,518	11	203,185	11	218,789	11		11		11		11		11		11	
1/4	172,155	1/4	187,844	1/4	203,511	1/4	219,109	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	172,484	1/2	188,170	1/2	203,838	1/2	219,430	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172,812	3/4	188,497	3/4	204,164	3/4	219,750	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	602	0	15,245	0	30,638	0	45,851	0	61,165	0	76,559	0	91,953	0	107,346	0	122,740	0	138,132
1/4	792	1/4	15,566	1/4	30,959	1/4	46,165	1/4	61,486	1/4	76,880	1/4	92,273	1/4	107,667	1/4	123,061	1/4	138,452
1/2	983	1/2	15,886	1/2	31,280	1/2	46,479	1/2	61,807	1/2	77,200	1/2	92,594	1/2	107,988	1/2	123,381	1/2	138,773
3/4	1,173	3/4	16,207	3/4	31,600	3/4	46,794	3/4	62,128	3/4	77,521	3/4	92,915	3/4	108,308	3/4	123,702	3/4	139,094
1	1,364	1	16,528	1	31,921	1	47,108	1	62,448	1	77,842	1	93,235	1	108,629	1	124,023	1	139,414
1/4	1,634	1/4	16,849	1/4	32,242	1/4	47,422	1/4	62,769	1/4	78,163	1/4	93,556	1/4	108,950	1/4	124,343	1/4	139,735
1/2	1,905	1/2	17,169	1/2	32,562	1/2	47,737	1/2	63,090	1/2	78,483	1/2	93,877	1/2	109,270	1/2	124,664	1/2	140,056
3/4	2,175	3/4	17,490	3/4	32,883	3/4	48,051	3/4	63,410	3/4	78,804	3/4	94,198	3/4	109,591	3/4	124,985	3/4	140,376
2	2,446	2	17,811	2	33,204	2	48,365	2	63,731	2	79,125	2	94,518	2	109,912	2	125,305	2	140,697
1/4	2,760	1/4	18,131	1/4	33,524	1/4	48,680	1/4	64,052	1/4	79,445	1/4	94,839	1/4	110,233	1/4	125,626	1/4	141,017
1/2	3,074	1/2	18,452	1/2	33,845	1/2	48,994	1/2	64,372	1/2	79,766	1/2	95,160	1/2	110,553	1/2	125,947	1/2	141,338
3/4	3,389	3/4	18,773	3/4	34,166	3/4	49,309	3/4	64,693	3/4	80,087	3/4	95,480	3/4	110,874	3/4	126,267	3/4	141,659
3	3,703	3	19,093	3	34,487	3	49,623	3	65,014	3	80,407	3	95,801	3	111,195	3	126,588	3	141,979
1/4	4,023	1/4	19,414	1/4	34,807	1/4	49,943	1/4	65,335	1/4	80,728	1/4	96,122	1/4	111,515	1/4	126,909	1/4	142,300
1/2	4,343	1/2	19,735	1/2	35,128	1/2	50,263	1/2	65,655	1/2	81,049	1/2	96,442	1/2	111,836	1/2	127,230	1/2	142,621
3/4	4,663	3/4	20,055	3/4	35,449	3/4	50,583	3/4	65,976	3/4	81,370	3/4	96,763	3/4	112,157	3/4	127,550	3/4	142,941
4	4,983	4	20,376	4	35,769	4	50,903	4	66,297	4	81,690	4	97,084	4	112,477	4	127,871	4	143,262
1/4	5,304	1/4	20,697	1/4	36,090	1/4	51,224	1/4	66,617	1/4	82,011	1/4	97,405	1/4	112,798	1/4	128,192	1/4	143,582
1/2	5,625	1/2	21,018	1/2	36,411	1/2	51,544	1/2	66,938	1/2	82,332	1/2	97,725	1/2	113,119	1/2	128,512	1/2	143,903
3/4	5,945	3/4	21,338	3/4	36,731	3/4	51,865	3/4	67,259	3/4	82,652	3/4	98,046	3/4	113,440	3/4	128,833	3/4	144,224
5	6,266	5	21,659	5	37,052	5	52,186	5	67,579	5	82,973	5	98,367	5	113,760	5	129,154	5	144,544
1/4	6,586	1/4	21,980	1/4	37,367	1/4	52,507	1/4	67,900	1/4	83,294	1/4	98,687	1/4	114,081	1/4	129,474	1/4	144,865
1/2	6,907	1/2	22,300	1/2	37,682	1/2	52,827	1/2	68,221	1/2	83,614	1/2	99,008	1/2	114,402	1/2	129,795	1/2	145,186
3/4	7,228	3/4	22,621	3/4	37,997	3/4	53,148	3/4	68,542	3/4	83,935	3/4	99,329	3/4	114,722	3/4	130,116	3/4	145,506
6	7,549	6	22,942	6	38,312	6	53,469	6	68,862	6	84,256	6	99,649	6	115,043	6	130,437	6	145,827
1/4	7,869	1/4	23,262	1/4	38,626	1/4	53,789	1/4	69,183	1/4	84,577	1/4	99,970	1/4	115,364	1/4	130,757	1/4	146,147
1/2	8,190	1/2	23,583	1/2	38,940	1/2	54,110	1/2	69,504	1/2	84,897	1/2	100,291	1/2	115,684	1/2	131,078	1/2	146,468
3/4	8,511	3/4	23,904	3/4	39,254	3/4	54,431	3/4	69,824	3/4	85,218	3/4	100,612	3/4	116,005	3/4	131,399	3/4	146,789
7	8,831	7	24,224	7	39,568	7	54,751	7	70,145	7	85,539	7	100,932	7	116,326	7	131,719	7	147,109
1/4	9,152	1/4	24,545	1/4	39,883	1/4	55,072	1/4	70,466	1/4	85,859	1/4	101,253	1/4	116,647	1/4	132,040	1/4	147,430
1/2	9,473	1/2	24,866	1/2	40,197	1/2	55,393	1/2	70,786	1/2	86,180	1/2	101,574	1/2	116,967	1/2	132,361	1/2	147,751
3/4	9,793	3/4	25,187	3/4	40,511	3/4	55,714	3/4	71,107	3/4	86,501	3/4	101,894	3/4	117,288	3/4	132,681	3/4	148,071
8	10,114	8	25,507	8	40,825	8	56,034	8	71,428	8	86,821	8	102,215	8	117,609	8	133,002	8	148,392
1/4	10,435	1/4	25,828	1/4	41,139	1/4	56,355	1/4	71,749	1/4	87,142	1/4	102,536	1/4	117,929	1/4	133,323	1/4	148,712
1/2	10,755	1/2	26,149	1/2	41,453	1/2	56,676	1/2	72,069	1/2	87,463	1/2	102,856	1/2	118,250	1/2	133,643	1/2	149,033
3/4	11,076	3/4	26,469	3/4	41,767	3/4	56,996	3/4	72,390	3/4	87,784	3/4	103,177	3/4	118,571	3/4	133,964	3/4	149,354
9	11,397	9	26,790	9	42,082	9	57,317	9	72,711	9	88,104	9	103,498	9	118,891	9	134,284	9	149,674
1/4	11,718	1/4	27,111	1/4	42,396	1/4	57,638	1/4	73,031	1/4	88,425	1/4	103,819	1/4	119,212	1/4	134,605	1/4	149,995
1/2	12,038	1/2	27,431	1/2	42,710	1/2	57,958	1/2	73,352	1/2	88,746	1/2	104,139	1/2	119,533	1/2	134,926	1/2	150,315
3/4	12,359	3/4	27,752	3/4	43,024	3/4	58,279	3/4	73,673	3/4	89,066	3/4	104,460	3/4	119,854	3/4	135,246	3/4	150,636
10	12,680	10	28,073	10	43,338	10	58,600	10	73,993	10	89,387	10	104,781	10	120,174	10	135,567	10	150,957
1/4	13,000	1/4	28,393	1/4	43,652	1/4	58,921	1/4	74,314	1/4	89,708	1/4	105,101	1/4	120,495	1/4	135,888	1/4	151,277
1/2	13,321	1/2	28,714	1/2	43,966	1/2	59,241	1/2	74,635	1/2	90,028	1/2	105,422	1/2	120,816	1/2	136,208	1/2	151,598
3/4	13,642	3/4	29,035	3/4	44,280	3/4	59,562	3/4	74,956	3/4	90,349	3/4	105,743	3/4	121,136	3/4	136,529	3/4	151,919
11	13,962	11	29,355	11	44,595	11	59,883	11	75,276	11	90,670	11	106,063	11	121,457	11	136,849	11	152,239
1/4	14,283	1/4	29,676	1/4	44,909	1/4	60,203	1/4	75,597	1/4	90,991	1/4	106,384	1/4	121,778	1/4	137,170	1/4	152,560
1/2	14,604	1/2	29,997	1/2	45,223	1/2	60,524	1/2	75,918	1/2	91,311	1/2	106,705	1/2	122,098	1/2	137,491	1/2	152,880
3/4	14,924	3/4	30,318	3/4	45,537	3/4	60,845	3/4	76,238	3/4	91,632	3/4	107,026	3/4	122,419	3/4	137,811	3/4	153,201

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 319"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	153,522	0	168,912	0	184,229	0	199,531	0	214,746	0		0		0		0		0	
1/4	153,842	1/4	169,232	1/4	184,548	1/4	199,850	1/4	215,053	1/4		1/4		1/4		1/4		1/4	
1/2	154,163	1/2	169,553	1/2	184,867	1/2	200,169	1/2	215,360	1/2		1/2		1/2		1/2		1/2	
3/4	154,484	3/4	169,873	3/4	185,186	3/4	200,488	3/4	215,667	3/4		3/4		3/4		3/4		3/4	
1	154,804	1	170,194	1	185,504	1	200,807	1	215,974	1		1		1		1		1	
1/4	155,125	1/4	170,515	1/4	185,823	1/4	201,125	1/4	216,242	1/4		1/4		1/4		1/4		1/4	
1/2	155,445	1/2	170,835	1/2	186,142	1/2	201,444	1/2	216,509	1/2		1/2		1/2		1/2		1/2	
3/4	155,766	3/4	171,156	3/4	186,461	3/4	201,763	3/4	216,777	3/4		3/4		3/4		3/4		3/4	
2	156,087	2	171,477	2	186,780	2	202,082	2	217,044	2		2		2		2		2	
1/4	156,407	1/4	171,796	1/4	187,098	1/4	202,401	1/4	217,260	1/4		1/4		1/4		1/4		1/4	
1/2	156,728	1/2	172,115	1/2	187,417	1/2	202,719	1/2	217,475	1/2		1/2		1/2		1/2		1/2	
3/4	157,049	3/4	172,434	3/4	187,736	3/4	203,038	3/4	217,690	3/4		3/4		3/4		3/4		3/4	
3	157,369	3	172,753	3	188,055	3	203,357	3	217,905	3		3		3		3		3	
1/4	157,690	1/4	173,071	1/4	188,374	1/4	203,676	1/4	218,067	1/4		1/4		1/4		1/4		1/4	
1/2	158,010	1/2	173,390	1/2	188,692	1/2	203,995	1/2	218,229	1/2		1/2		1/2		1/2		1/2	
3/4	158,331	3/4	173,709	3/4	189,011	3/4	204,313	3/4		3/4		3/4		3/4		3/4		3/4	
4	158,652	4	174,028	4	189,330	4	204,632	4		4		4		4		4		4	
1/4	158,972	1/4	174,347	1/4	189,649	1/4	204,951	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,293	1/2	174,665	1/2	189,968	1/2	205,270	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,614	3/4	174,984	3/4	190,286	3/4	205,589	3/4		3/4		3/4		3/4		3/4		3/4	
5	159,934	5	175,303	5	190,605	5	205,907	5		5		5		5		5		5	
1/4	160,255	1/4	175,622	1/4	190,924	1/4	206,226	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,575	1/2	175,941	1/2	191,243	1/2	206,545	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,896	3/4	176,259	3/4	191,562	3/4	206,864	3/4		3/4		3/4		3/4		3/4		3/4	
6	161,217	6	176,578	6	191,880	6	207,183	6		6		6		6		6		6	
1/4	161,537	1/4	176,897	1/4	192,199	1/4	207,501	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,858	1/2	177,216	1/2	192,518	1/2	207,820	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,178	3/4	177,535	3/4	192,837	3/4	208,139	3/4		3/4		3/4		3/4		3/4		3/4	
7	162,499	7	177,853	7	193,156	7	208,458	7		7		7		7		7		7	
1/4	162,820	1/4	178,172	1/4	193,474	1/4	208,773	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,140	1/2	178,491	1/2	193,793	1/2	209,089	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,461	3/4	178,810	3/4	194,112	3/4	209,405	3/4		3/4		3/4		3/4		3/4		3/4	
8	163,782	8	179,129	8	194,431	8	209,721	8		8		8		8		8		8	
1/4	164,102	1/4	179,447	1/4	194,750	1/4	210,036	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,423	1/2	179,766	1/2	195,068	1/2	210,351	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,743	3/4	180,085	3/4	195,387	3/4	210,666	3/4		3/4		3/4		3/4		3/4		3/4	
9	165,064	9	180,404	9	195,706	9	210,981	9		9		9		9		9		9	
1/4	165,385	1/4	180,723	1/4	196,025	1/4	211,296	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,705	1/2	181,041	1/2	196,344	1/2	211,610	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,026	3/4	181,360	3/4	196,662	3/4	211,925	3/4		3/4		3/4		3/4		3/4		3/4	
10	166,347	10	181,679	10	196,981	10	212,240	10		10		10		10		10		10	
1/4	166,667	1/4	181,998	1/4	197,300	1/4	212,554	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,988	1/2	182,316	1/2	197,619	1/2	212,867	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,308	3/4	182,635	3/4	197,938	3/4	213,181	3/4		3/4		3/4		3/4		3/4		3/4	
11	167,629	11	182,954	11	198,256	11	213,495	11		11		11		11		11		11	
1/4	167,950	1/4	183,273	1/4	198,575	1/4	213,808	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,270	1/2	183,592	1/2	198,894	1/2	214,121	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,591	3/4	183,910	3/4	199,213	3/4	214,434	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	602	0	15,245	0	30,638	0	45,745	0	61,087	0	76,480	0	91,874	0	107,267	0	122,661	0	138,053
1/4	792	1/4	15,566	1/4	30,959	1/4	46,058	1/4	61,407	1/4	76,801	1/4	92,194	1/4	107,588	1/4	122,982	1/4	138,374
1/2	983	1/2	15,886	1/2	31,280	1/2	46,370	1/2	61,728	1/2	77,122	1/2	92,515	1/2	107,909	1/2	123,302	1/2	138,694
3/4	1,173	3/4	16,207	3/4	31,600	3/4	46,683	3/4	62,049	3/4	77,442	3/4	92,836	3/4	108,229	3/4	123,623	3/4	139,015
1	1,364	1	16,528	1	31,921	1	46,995	1	62,369	1	77,763	1	93,157	1	108,550	1	123,944	1	139,335
1/4	1,634	1/4	16,849	1/4	32,242	1/4	47,313	1/4	62,690	1/4	78,084	1/4	93,477	1/4	108,871	1/4	124,264	1/4	139,656
1/2	1,905	1/2	17,169	1/2	32,562	1/2	47,631	1/2	63,011	1/2	78,404	1/2	93,798	1/2	109,192	1/2	124,585	1/2	139,977
3/4	2,175	3/4	17,490	3/4	32,883	3/4	47,949	3/4	63,331	3/4	78,725	3/4	94,119	3/4	109,512	3/4	124,906	3/4	140,297
2	2,446	2	17,811	2	33,204	2	48,267	2	63,652	2	79,046	2	94,439	2	109,833	2	125,227	2	140,618
1/4	2,760	1/4	18,131	1/4	33,524	1/4	48,586	1/4	63,973	1/4	79,366	1/4	94,760	1/4	110,154	1/4	125,547	1/4	140,939
1/2	3,074	1/2	18,452	1/2	33,845	1/2	48,905	1/2	64,294	1/2	79,687	1/2	95,051	1/2	110,474	1/2	125,868	1/2	141,259
3/4	3,389	3/4	18,773	3/4	34,166	3/4	49,224	3/4	64,614	3/4	80,008	3/4	95,401	3/4	110,795	3/4	126,189	3/4	141,580
3	3,703	3	19,093	3	34,487	3	49,542	3	64,935	3	80,329	3	95,722	3	111,116	3	126,509	3	141,900
1/4	4,023	1/4	19,414	1/4	34,801	1/4	49,863	1/4	65,256	1/4	80,649	1/4	96,043	1/4	111,436	1/4	126,830	1/4	142,221
1/2	4,343	1/2	19,735	1/2	35,115	1/2	50,183	1/2	65,576	1/2	80,970	1/2	96,364	1/2	111,757	1/2	127,151	1/2	142,542
3/4	4,663	3/4	20,055	3/4	35,429	3/4	50,504	3/4	65,897	3/4	81,291	3/4	96,684	3/4	112,078	3/4	127,471	3/4	142,862
4	4,983	4	20,376	4	35,743	4	50,824	4	66,218	4	81,611	4	97,005	4	112,399	4	127,792	4	143,183
1/4	5,304	1/4	20,697	1/4	36,056	1/4	51,145	1/4	66,538	1/4	81,932	1/4	97,326	1/4	112,719	1/4	128,113	1/4	143,504
1/2	5,625	1/2	21,018	1/2	36,369	1/2	51,466	1/2	66,859	1/2	82,253	1/2	97,646	1/2	113,040	1/2	128,434	1/2	143,824
3/4	5,945	3/4	21,338	3/4	36,683	3/4	51,786	3/4	67,180	3/4	82,573	3/4	97,967	3/4	113,361	3/4	128,754	3/4	144,145
5	6,266	5	21,659	5	36,996	5	52,107	5	67,501	5	82,894	5	98,288	5	113,681	5	129,075	5	144,465
1/4	6,586	1/4	21,980	1/4	37,308	1/4	52,428	1/4	67,821	1/4	83,215	1/4	98,608	1/4	114,002	1/4	129,396	1/4	144,786
1/2	6,907	1/2	22,300	1/2	37,621	1/2	52,748	1/2	68,142	1/2	83,536	1/2	98,929	1/2	114,323	1/2	129,716	1/2	145,107
3/4	7,228	3/4	22,621	3/4	37,933	3/4	53,069	3/4	68,463	3/4	83,856	3/4	99,250	3/4	114,643	3/4	130,037	3/4	145,427
6	7,549	6	22,942	6	38,246	6	53,390	6	68,783	6	84,177	6	99,571	6	114,964	6	130,358	6	145,748
1/4	7,869	1/4	23,262	1/4	38,558	1/4	53,711	1/4	69,104	1/4	84,498	1/4	99,891	1/4	115,285	1/4	130,678	1/4	146,069
1/2	8,190	1/2	23,583	1/2	38,871	1/2	54,031	1/2	69,425	1/2	84,818	1/2	100,212	1/2	115,606	1/2	130,999	1/2	146,389
3/4	8,511	3/4	23,904	3/4	39,183	3/4	54,352	3/4	69,745	3/4	85,139	3/4	100,533	3/4	115,926	3/4	131,320	3/4	146,710
7	8,831	7	24,224	7	39,496	7	54,673	7	70,066	7	85,460	7	100,853	7	116,247	7	131,641	7	147,030
1/4	9,152	1/4	24,545	1/4	39,808	1/4	54,993	1/4	70,387	1/4	85,780	1/4	101,174	1/4	116,568	1/4	131,961	1/4	147,351
1/2	9,473	1/2	24,866	1/2	40,121	1/2	55,314	1/2	70,708	1/2	86,101	1/2	101,495	1/2	116,888	1/2	132,282	1/2	147,672
3/4	9,793	3/4	25,187	3/4	40,433	3/4	55,635	3/4	71,028	3/4	86,422	3/4	101,815	3/4	117,209	3/4	132,602	3/4	147,992
8	10,114	8	25,507	8	40,746	8	55,955	8	71,349	8	86,743	8	102,136	8	117,530	8	132,923	8	148,313
1/4	10,435	1/4	25,828	1/4	41,058	1/4	56,276	1/4	71,670	1/4	87,063	1/4	102,457	1/4	117,850	1/4	133,244	1/4	148,633
1/2	10,755	1/2	26,149	1/2	41,371	1/2	56,597	1/2	71,990	1/2	87,384	1/2	102,778	1/2	118,171	1/2	133,564	1/2	148,954
3/4	11,076	3/4	26,469	3/4	41,683	3/4	56,918	3/4	72,311	3/4	87,705	3/4	103,098	3/4	118,492	3/4	133,885	3/4	149,275
9	11,397	9	26,790	9	41,996	9	57,238	9	72,632	9	88,025	9	103,419	9	118,813	9	134,206	9	149,595
1/4	11,718	1/4	27,111	1/4	42,308	1/4	57,559	1/4	72,952	1/4	88,346	1/4	103,740	1/4	119,133	1/4	134,526	1/4	149,916
1/2	12,038	1/2	27,431	1/2	42,621	1/2	57,880	1/2	73,273	1/2	88,667	1/2	104,060	1/2	119,454	1/2	134,847	1/2	150,237
3/4	12,359	3/4	27,752	3/4	42,933	3/4	58,200	3/4	73,594	3/4	88,987	3/4	104,381	3/4	119,775	3/4	135,167	3/4	150,557
10	12,680	10	28,073	10	43,246	10	58,521	10	73,915	10	89,308	10	104,702	10	120,095	10	135,488	10	150,878
1/4	13,000	1/4	28,393	1/4	43,558	1/4	58,842	1/4	74,235	1/4	89,629	1/4	105,022	1/4	120,416	1/4	135,809	1/4	151,198
1/2	13,321	1/2	28,714	1/2	43,870	1/2	59,162	1/2	74,556	1/2	89,950	1/2	105,343	1/2	120,737	1/2	136,129	1/2	151,519
3/4	13,642	3/4	29,035	3/4	44,183	3/4	59,483	3/4	74,877	3/4	90,270	3/4	105,664	3/4	121,057	3/4	136,450	3/4	151,840
11	13,962	11	29,355	11	44,495	11	59,804	11	75,197	11	90,591	11	105,985	11	121,378	11	136,770	11	152,160
1/4	14,283	1/4	29,676	1/4	44,808	1/4	60,124	1/4	75,518	1/4	90,912	1/4	106,305	1/4	121,699	1/4	137,091	1/4	152,481
1/2	14,604	1/2	29,997	1/2	45,120	1/2	60,445	1/2	75,839	1/2	91,232	1/2	106,626	1/2	122,020	1/2	137,412	1/2	152,802
3/4	14,924	3/4	30,318	3/4	45,433	3/4	60,766	3/4	76,159	3/4	91,553	3/4	106,947	3/4	122,340	3/4	137,732	3/4	153,122

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "CBC 319"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	153,443	0	168,833	0	184,150	0	199,453	0	214,667	0		0		0		0		0	
1/4	153,763	1/4	169,153	1/4	184,469	1/4	199,771	1/4	214,974	1/4		1/4		1/4		1/4		1/4	
1/2	154,084	1/2	169,474	1/2	184,788	1/2	200,090	1/2	215,281	1/2		1/2		1/2		1/2		1/2	
3/4	154,405	3/4	169,795	3/4	185,107	3/4	200,409	3/4	215,588	3/4		3/4		3/4		3/4		3/4	
1	154,725	1	170,115	1	185,426	1	200,728	1	215,895	1		1		1		1		1	
1/4	155,046	1/4	170,436	1/4	185,744	1/4	201,047	1/4	216,163	1/4		1/4		1/4		1/4		1/4	
1/2	155,367	1/2	170,756	1/2	186,063	1/2	201,365	1/2	216,430	1/2		1/2		1/2		1/2		1/2	
3/4	155,687	3/4	171,077	3/4	186,382	3/4	201,684	3/4	216,698	3/4		3/4		3/4		3/4		3/4	
2	156,008	2	171,398	2	186,701	2	202,003	2	216,965	2		2		2		2		2	
1/4	156,328	1/4	171,717	1/4	187,020	1/4	202,322	1/4	217,181	1/4		1/4		1/4		1/4		1/4	
1/2	156,649	1/2	172,036	1/2	187,338	1/2	202,641	1/2	217,396	1/2		1/2		1/2		1/2		1/2	
3/4	156,970	3/4	172,355	3/4	187,657	3/4	202,959	3/4	217,611	3/4		3/4		3/4		3/4		3/4	
3	157,290	3	172,674	3	187,976	3	203,278	3	217,826	3		3		3		3		3	
1/4	157,611	1/4	172,993	1/4	188,295	1/4	203,597	1/4	217,988	1/4		1/4		1/4		1/4		1/4	
1/2	157,932	1/2	173,311	1/2	188,614	1/2	203,916	1/2	218,150	1/2		1/2		1/2		1/2		1/2	
3/4	158,252	3/4	173,630	3/4	188,932	3/4	204,235	3/4		3/4		3/4		3/4		3/4		3/4	
4	158,573	4	173,949	4	189,251	4	204,553	4		4		4		4		4		4	
1/4	158,893	1/4	174,268	1/4	189,570	1/4	204,872	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,214	1/2	174,586	1/2	189,889	1/2	205,191	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,535	3/4	174,905	3/4	190,208	3/4	205,510	3/4		3/4		3/4		3/4		3/4		3/4	
5	159,855	5	175,224	5	190,526	5	205,829	5		5		5		5		5		5	
1/4	160,176	1/4	175,543	1/4	190,845	1/4	206,147	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,496	1/2	175,862	1/2	191,164	1/2	206,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,817	3/4	176,180	3/4	191,483	3/4	206,785	3/4		3/4		3/4		3/4		3/4		3/4	
6	161,138	6	176,499	6	191,801	6	207,104	6		6		6		6		6		6	
1/4	161,458	1/4	176,818	1/4	192,120	1/4	207,423	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,779	1/2	177,137	1/2	192,439	1/2	207,741	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,100	3/4	177,456	3/4	192,758	3/4	208,060	3/4		3/4		3/4		3/4		3/4		3/4	
7	162,420	7	177,774	7	193,077	7	208,379	7		7		7		7		7		7	
1/4	162,741	1/4	178,093	1/4	193,395	1/4	208,695	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,061	1/2	178,412	1/2	193,714	1/2	209,010	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,382	3/4	178,731	3/4	194,033	3/4	209,326	3/4		3/4		3/4		3/4		3/4		3/4	
8	163,703	8	179,050	8	194,352	8	209,642	8		8		8		8		8		8	
1/4	164,023	1/4	179,368	1/4	194,671	1/4	209,957	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,344	1/2	179,687	1/2	194,989	1/2	210,272	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,665	3/4	180,006	3/4	195,308	3/4	210,587	3/4		3/4		3/4		3/4		3/4		3/4	
9	164,985	9	180,325	9	195,627	9	210,902	9		9		9		9		9		9	
1/4	165,306	1/4	180,644	1/4	195,946	1/4	211,217	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,626	1/2	180,962	1/2	196,265	1/2	211,531	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,947	3/4	181,281	3/4	196,583	3/4	211,846	3/4		3/4		3/4		3/4		3/4		3/4	
10	166,268	10	181,600	10	196,902	10	212,161	10		10		10		10		10		10	
1/4	166,588	1/4	181,919	1/4	197,221	1/4	212,475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,909	1/2	182,238	1/2	197,540	1/2	212,789	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,230	3/4	182,556	3/4	197,859	3/4	213,102	3/4		3/4		3/4		3/4		3/4		3/4	
11	167,550	11	182,875	11	198,177	11	213,416	11		11		11		11		11		11	
1/4	167,871	1/4	183,194	1/4	198,496	1/4	213,729	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,191	1/2	183,513	1/2	198,815	1/2	214,042	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,512	3/4	183,832	3/4	199,134	3/4	214,355	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

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	611	0	15,488	0	31,120	0	46,477	0	61,909	0	77,507	0	93,102	0	108,647	0	124,230	0	139,815
1/4	805	1/4	15,814	1/4	31,445	1/4	46,794	1/4	62,234	1/4	77,832	1/4	93,426	1/4	108,972	1/4	124,555	1/4	140,140
1/2	998	1/2	16,140	1/2	31,770	1/2	47,110	1/2	62,559	1/2	78,157	1/2	93,749	1/2	109,296	1/2	124,879	1/2	140,465
3/4	1,192	3/4	16,466	3/4	32,094	3/4	47,426	3/4	62,884	3/4	78,426	3/4	94,073	3/4	109,621	3/4	125,204	3/4	140,790
1	1,385	1	16,792	1	32,419	1	47,743	1	63,209	1	78,807	1	94,397	1	109,945	1	125,529	1	141,114
1/4	1,660	1/4	17,117	1/4	32,744	1/4	48,060	1/4	63,534	1/4	79,132	1/4	94,721	1/4	110,269	1/4	125,854	1/4	141,439
1/2	1,935	1/2	17,443	1/2	33,069	1/2	48,376	1/2	63,859	1/2	79,457	1/2	95,045	1/2	110,594	1/2	126,178	1/2	141,764
3/4	2,210	3/4	17,769	3/4	33,394	3/4	48,693	3/4	64,184	3/4	79,782	3/4	95,369	3/4	110,918	3/4	126,503	3/4	142,088
2	2,484	2	18,095	2	33,718	2	49,010	2	64,509	2	80,107	2	95,693	2	111,243	2	126,828	2	142,413
1/4	2,804	1/4	18,421	1/4	34,043	1/4	49,327	1/4	64,834	1/4	80,431	1/4	96,017	1/4	111,567	1/4	127,152	1/4	142,738
1/2	3,123	1/2	18,747	1/2	34,368	1/2	49,643	1/2	65,159	1/2	80,756	1/2	96,340	1/2	111,892	1/2	127,477	1/2	143,062
3/4	3,443	3/4	19,072	3/4	34,693	3/4	49,960	3/4	65,484	3/4	81,081	3/4	96,664	3/4	112,216	3/4	127,802	3/4	143,387
3	3,762	3	19,398	3	35,018	3	50,277	3	65,809	3	81,406	3	96,988	3	112,541	3	128,126	3	143,712
1/4	4,087	1/4	19,724	1/4	35,342	1/4	50,594	1/4	66,134	1/4	81,731	1/4	97,312	1/4	112,865	1/4	128,451	1/4	144,036
1/2	4,412	1/2	20,050	1/2	35,667	1/2	50,911	1/2	66,458	1/2	82,056	1/2	97,636	1/2	113,190	1/2	128,776	1/2	144,361
3/4	4,738	3/4	20,376	3/4	35,992	3/4	51,228	3/4	66,783	3/4	82,381	3/4	97,960	3/4	113,515	3/4	129,101	3/4	144,686
4	5,063	4	20,701	4	36,317	4	51,545	4	67,108	4	82,706	4	98,284	4	113,839	4	129,425	4	145,010
1/4	5,388	1/4	21,027	1/4	36,642	1/4	51,862	1/4	67,433	1/4	83,031	1/4	98,608	1/4	114,164	1/4	129,750	1/4	145,334
1/2	5,714	1/2	21,353	1/2	36,966	1/2	52,179	1/2	67,758	1/2	83,356	1/2	98,931	1/2	114,489	1/2	130,075	1/2	145,658
3/4	6,040	3/4	21,679	3/4	37,291	3/4	52,496	3/4	68,083	3/4	83,681	3/4	99,255	3/4	114,813	3/4	130,399	3/4	145,982
5	6,366	5	22,005	5	37,616	5	52,814	5	68,407	5	84,006	5	99,579	5	115,138	5	130,724	5	146,306
1/4	6,691	1/4	22,331	1/4	37,933	1/4	53,137	1/4	68,732	1/4	84,331	1/4	99,903	1/4	115,463	1/4	131,049	1/4	146,630
1/2	7,017	1/2	22,656	1/2	38,250	1/2	53,461	1/2	69,057	1/2	84,656	1/2	100,227	1/2	115,788	1/2	131,374	1/2	146,954
3/4	7,343	3/4	22,982	3/4	38,567	3/4	53,785	3/4	69,382	3/4	84,981	3/4	100,551	3/4	116,112	3/4	131,698	3/4	147,278
6	7,669	6	23,308	6	38,884	6	54,109	6	69,707	6	85,306	6	100,875	6	116,437	6	132,023	6	147,602
1/4	7,995	1/4	23,634	1/4	39,201	1/4	54,434	1/4	70,032	1/4	85,631	1/4	101,199	1/4	116,762	1/4	132,348	1/4	147,926
1/2	8,320	1/2	23,960	1/2	39,517	1/2	54,759	1/2	70,357	1/2	85,956	1/2	101,522	1/2	117,086	1/2	132,672	1/2	148,250
3/4	8,646	3/4	24,285	3/4	39,833	3/4	55,084	3/4	70,682	3/4	86,281	3/4	101,846	3/4	117,411	3/4	132,997	3/4	148,573
7	8,972	7	24,611	7	40,150	7	55,409	7	71,007	7	86,606	7	102,170	7	117,736	7	133,322	7	148,897
1/4	9,298	1/4	24,937	1/4	40,466	1/4	55,734	1/4	71,332	1/4	86,931	1/4	102,494	1/4	118,060	1/4	133,647	1/4	149,221
1/2	9,624	1/2	25,263	1/2	40,782	1/2	56,059	1/2	71,657	1/2	87,256	1/2	102,818	1/2	118,385	1/2	133,971	1/2	149,545
3/4	9,950	3/4	25,589	3/4	41,099	3/4	56,384	3/4	71,982	3/4	87,581	3/4	103,142	3/4	118,710	3/4	134,296	3/4	149,869
8	10,275	8	25,915	8	41,415	8	56,709	8	72,307	8	87,906	8	103,466	8	119,035	8	134,621	8	150,193
1/4	10,601	1/4	26,240	1/4	41,732	1/4	57,034	1/4	72,632	1/4	88,231	1/4	103,789	1/4	119,359	1/4	134,945	1/4	150,517
1/2	10,927	1/2	26,566	1/2	42,048	1/2	57,359	1/2	72,957	1/2	88,556	1/2	104,113	1/2	119,684	1/2	135,270	1/2	150,841
3/4	11,253	3/4	26,892	3/4	42,364	3/4	57,684	3/4	73,282	3/4	88,881	3/4	104,437	3/4	120,009	3/4	135,595	3/4	151,165
9	11,579	9	27,218	9	42,681	9	58,009	9	73,607	9	89,206	9	104,761	9	120,333	9	135,919	9	151,488
1/4	11,904	1/4	27,544	1/4	42,997	1/4	58,334	1/4	73,932	1/4	89,531	1/4	105,085	1/4	120,658	1/4	136,244	1/4	151,812
1/2	12,230	1/2	27,869	1/2	43,313	1/2	58,659	1/2	74,257	1/2	89,856	1/2	105,408	1/2	120,983	1/2	136,569	1/2	152,136
3/4	12,556	3/4	28,195	3/4	43,630	3/4	58,984	3/4	74,582	3/4	90,181	3/4	105,732	3/4	121,308	3/4	136,893	3/4	152,460
10	12,882	10	28,521	10	43,946	10	59,309	10	74,907	10	90,506	10	106,056	10	121,632	10	137,218	10	152,784
1/4	13,208	1/4	28,846	1/4	44,263	1/4	59,634	1/4	75,232	1/4	90,831	1/4	106,379	1/4	121,957	1/4	137,543	1/4	153,108
1/2	13,534	1/2	29,171	1/2	44,579	1/2	59,959	1/2	75,557	1/2	91,156	1/2	106,703	1/2	122,282	1/2	137,867	1/2	153,432
3/4	13,859	3/4	29,496	3/4	44,895	3/4	60,284	3/4	75,882	3/4	91,481	3/4	107,026	3/4	122,606	3/4	138,192	3/4	153,756
11	14,185	11	29,821	11	45,212	11	60,609	11	76,207	11	91,806	11	107,350	11	122,931	11	138,517	11	154,080
1/4	14,511	1/4	30,146	1/4	45,528	1/4	60,934	1/4	76,532	1/4	92,130	1/4	107,674	1/4	123,256	1/4	138,841	1/4	154,404
1/2	14,837	1/2	30,470	1/2	45,844	1/2	61,259	1/2	76,857	1/2	92,454	1/2	107,998	1/2	123,581	1/2	139,166	1/2	154,728
3/4	15,163	3/4	30,795	3/4	46,161	3/4	61,584	3/4	77,182	3/4	92,778	3/4	108,323	3/4	123,905	3/4	139,491	3/4	155,052

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "CBC 319"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

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	155,375	0	168,321	0	180,295	0	192,258	0	204,148	0		0		0		0		0	
1/4	155,699	1/4	168,571	1/4	180,544	1/4	192,507	1/4	204,386	1/4		1/4		1/4		1/4		1/4	
1/2	156,023	1/2	168,822	1/2	180,794	1/2	192,756	1/2	204,624	1/2		1/2		1/2		1/2		1/2	
3/4	156,347	3/4	169,073	3/4	181,043	3/4	193,006	3/4	204,862	3/4		3/4		3/4		3/4		3/4	
1	156,671	1	169,323	1	181,292	1	193,255	1	205,100	1		1		1		1		1	
1/4	156,995	1/4	169,574	1/4	181,541	1/4	193,504	1/4	205,298	1/4		1/4		1/4		1/4		1/4	
1/2	157,319	1/2	169,824	1/2	181,791	1/2	193,753	1/2	205,496	1/2		1/2		1/2		1/2		1/2	
3/4	157,643	3/4	170,075	3/4	182,040	3/4	194,003	3/4	205,694	3/4		3/4		3/4		3/4		3/4	
2	157,967	2	170,326	2	182,289	2	194,252	2	205,892	2		2		2		2		2	
1/4	158,291	1/4	170,575	1/4	182,538	1/4	194,501	1/4	206,037	1/4		1/4		1/4		1/4		1/4	
1/2	158,615	1/2	170,824	1/2	182,787	1/2	194,750	1/2	206,182	1/2		1/2		1/2		1/2		1/2	
3/4	158,939	3/4	171,074	3/4	183,037	3/4	194,999	3/4	206,326	3/4		3/4		3/4		3/4		3/4	
3	159,263	3	171,323	3	183,286	3	195,249	3	206,471	3		3		3		3		3	
1/4	159,523	1/4	171,572	1/4	183,535	1/4	195,498	1/4	206,562	1/4		1/4		1/4		1/4		1/4	
1/2	159,782	1/2	171,822	1/2	183,784	1/2	195,747	1/2	206,652	1/2		1/2		1/2		1/2		1/2	
3/4	160,042	3/4	172,071	3/4	184,034	3/4	195,996	3/4		3/4		3/4		3/4		3/4		3/4	
4	160,302	4	172,320	4	184,283	4	196,246	4		4		4		4		4		4	
1/4	160,552	1/4	172,569	1/4	184,532	1/4	196,495	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,803	1/2	172,819	1/2	184,781	1/2	196,744	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,054	3/4	173,068	3/4	185,030	3/4	196,993	3/4		3/4		3/4		3/4		3/4		3/4	
5	161,304	5	173,317	5	185,280	5	197,242	5		5		5		5		5		5	
1/4	161,555	1/4	173,566	1/4	185,529	1/4	197,492	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,805	1/2	173,815	1/2	185,778	1/2	197,741	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,056	3/4	174,065	3/4	186,027	3/4	197,990	3/4		3/4		3/4		3/4		3/4		3/4	
6	162,307	6	174,314	6	186,277	6	198,239	6		6		6		6		6		6	
1/4	162,557	1/4	174,563	1/4	186,526	1/4	198,489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,808	1/2	174,812	1/2	186,775	1/2	198,738	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,058	3/4	175,062	3/4	187,024	3/4	198,987	3/4		3/4		3/4		3/4		3/4		3/4	
7	163,309	7	175,311	7	187,274	7	199,236	7		7		7		7		7		7	
1/4	163,560	1/4	175,560	1/4	187,523	1/4	199,483	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,810	1/2	175,809	1/2	187,772	1/2	199,730	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,061	3/4	176,058	3/4	188,021	3/4	199,977	3/4		3/4		3/4		3/4		3/4		3/4	
8	164,311	8	176,308	8	188,270	8	200,224	8		8		8		8		8		8	
1/4	164,562	1/4	176,557	1/4	188,520	1/4	200,470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,813	1/2	176,806	1/2	188,769	1/2	200,716	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,063	3/4	177,055	3/4	189,018	3/4	200,963	3/4		3/4		3/4		3/4		3/4		3/4	
9	165,314	9	177,305	9	189,267	9	201,209	9		9		9		9		9		9	
1/4	165,564	1/4	177,554	1/4	189,517	1/4	201,455	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,815	1/2	177,803	1/2	189,766	1/2	201,700	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,066	3/4	178,052	3/4	190,015	3/4	201,946	3/4		3/4		3/4		3/4		3/4		3/4	
10	166,316	10	178,301	10	190,264	10	202,192	10		10		10		10		10		10	
1/4	166,567	1/4	178,551	1/4	190,513	1/4	202,437	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,817	1/2	178,800	1/2	190,763	1/2	202,682	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,068	3/4	179,049	3/4	191,012	3/4	202,927	3/4		3/4		3/4		3/4		3/4		3/4	
11	167,318	11	179,298	11	191,261	11	203,172	11		11		11		11		11		11	
1/4	167,569	1/4	179,548	1/4	191,510	1/4	203,416	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,820	1/2	179,797	1/2	191,760	1/2	203,660	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,070	3/4	180,046	3/4	192,009	3/4	203,904	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	611	0	15,488	0	31,120	0	46,284	0	61,583	0	77,181	0	92,776	0	108,321	0	123,904	0	139,490
1/4	805	1/4	15,814	1/4	31,445	1/4	46,593	1/4	61,908	1/4	77,506	1/4	93,100	1/4	108,646	1/4	124,229	1/4	139,814
1/2	998	1/2	16,140	1/2	31,770	1/2	46,903	1/2	62,233	1/2	77,831	1/2	93,424	1/2	108,970	1/2	124,553	1/2	140,139
3/4	1,192	3/4	16,466	3/4	32,094	3/4	47,212	3/4	62,558	3/4	78,156	3/4	93,747	3/4	109,295	3/4	124,878	3/4	140,464
1	1,385	1	16,792	1	32,419	1	47,522	1	62,883	1	78,481	1	94,071	1	109,619	1	125,203	1	140,788
1/4	1,660	1/4	17,117	1/4	32,744	1/4	47,832	1/4	63,208	1/4	78,806	1/4	94,395	1/4	109,943	1/4	125,528	1/4	141,113
1/2	1,935	1/2	17,443	1/2	33,069	1/2	48,141	1/2	63,533	1/2	79,131	1/2	94,719	1/2	110,268	1/2	125,852	1/2	141,438
3/4	2,210	3/4	17,769	3/4	33,394	3/4	48,451	3/4	63,858	3/4	79,456	3/4	95,043	3/4	110,592	3/4	126,177	3/4	141,762
2	2,484	2	18,095	2	33,718	2	48,761	2	64,183	2	79,781	2	95,367	2	110,917	2	126,502	2	142,087
1/4	2,804	1/4	18,421	1/4	34,043	1/4	49,072	1/4	64,508	1/4	80,106	1/4	95,691	1/4	111,241	1/4	126,826	1/4	142,412
1/2	3,123	1/2	18,747	1/2	34,368	1/2	49,382	1/2	64,833	1/2	80,431	1/2	96,014	1/2	111,566	1/2	127,151	1/2	142,736
3/4	3,443	3/4	19,072	3/4	34,693	3/4	49,693	3/4	65,158	3/4	80,755	3/4	96,338	3/4	111,890	3/4	127,476	3/4	143,061
3	3,762	3	19,398	3	35,018	3	50,003	3	65,483	3	81,080	3	96,662	3	112,215	3	127,801	3	143,386
1/4	4,087	1/4	19,724	1/4	35,342	1/4	50,314	1/4	65,808	1/4	81,405	1/4	96,986	1/4	112,539	1/4	128,125	1/4	143,710
1/2	4,412	1/2	20,050	1/2	35,667	1/2	50,625	1/2	66,132	1/2	81,730	1/2	97,310	1/2	112,864	1/2	128,450	1/2	144,035
3/4	4,738	3/4	20,376	3/4	35,992	3/4	50,936	3/4	66,457	3/4	82,055	3/4	97,634	3/4	113,189	3/4	128,775	3/4	144,360
4	5,063	4	20,701	4	36,317	4	51,247	4	66,782	4	82,380	4	97,958	4	113,513	4	129,099	4	144,684
1/4	5,388	1/4	21,027	1/4	36,641	1/4	51,558	1/4	67,107	1/4	82,705	1/4	98,282	1/4	113,838	1/4	129,424	1/4	145,008
1/2	5,714	1/2	21,353	1/2	36,965	1/2	51,869	1/2	67,432	1/2	83,030	1/2	98,605	1/2	114,163	1/2	129,749	1/2	145,332
3/4	6,040	3/4	21,679	3/4	37,289	3/4	52,180	3/4	67,757	3/4	83,355	3/4	98,929	3/4	114,487	3/4	130,074	3/4	145,656
5	6,366	5	22,005	5	37,613	5	52,491	5	68,081	5	83,680	5	99,253	5	114,812	5	130,398	5	145,980
1/4	6,691	1/4	22,331	1/4	37,924	1/4	52,814	1/4	68,406	1/4	84,005	1/4	99,577	1/4	115,137	1/4	130,723	1/4	146,304
1/2	7,017	1/2	22,656	1/2	38,235	1/2	53,137	1/2	68,731	1/2	84,330	1/2	99,901	1/2	115,462	1/2	131,048	1/2	146,628
3/4	7,343	3/4	22,982	3/4	38,546	3/4	53,460	3/4	69,056	3/4	84,655	3/4	100,225	3/4	115,786	3/4	131,372	3/4	146,952
6	7,669	6	23,308	6	38,857	6	53,784	6	69,381	6	84,980	6	100,549	6	116,111	6	131,697	6	147,276
1/4	7,995	1/4	23,634	1/4	39,166	1/4	54,109	1/4	69,706	1/4	85,305	1/4	100,873	1/4	116,436	1/4	132,022	1/4	147,600
1/2	8,320	1/2	23,960	1/2	39,476	1/2	54,433	1/2	70,031	1/2	85,630	1/2	101,196	1/2	116,760	1/2	132,346	1/2	147,924
3/4	8,646	3/4	24,285	3/4	39,785	3/4	54,758	3/4	70,356	3/4	85,955	3/4	101,520	3/4	117,085	3/4	132,671	3/4	148,248
7	8,972	7	24,611	7	40,095	7	55,083	7	70,681	7	86,280	7	101,844	7	117,410	7	132,996	7	148,571
1/4	9,298	1/4	24,937	1/4	40,404	1/4	55,408	1/4	71,006	1/4	86,605	1/4	102,168	1/4	117,735	1/4	133,321	1/4	148,895
1/2	9,624	1/2	25,263	1/2	40,714	1/2	55,733	1/2	71,331	1/2	86,930	1/2	102,492	1/2	118,059	1/2	133,645	1/2	149,219
3/4	9,950	3/4	25,589	3/4	41,023	3/4	56,058	3/4	71,656	3/4	87,255	3/4	102,816	3/4	118,384	3/4	133,970	3/4	149,543
8	10,275	8	25,915	8	41,333	8	56,383	8	71,981	8	87,580	8	103,140	8	118,709	8	134,295	8	149,867
1/4	10,601	1/4	26,240	1/4	41,642	1/4	56,708	1/4	72,306	1/4	87,905	1/4	103,464	1/4	119,033	1/4	134,619	1/4	150,191
1/2	10,927	1/2	26,566	1/2	41,951	1/2	57,033	1/2	72,631	1/2	88,230	1/2	103,787	1/2	119,358	1/2	134,944	1/2	150,515
3/4	11,253	3/4	26,892	3/4	42,261	3/4	57,358	3/4	72,956	3/4	88,555	3/4	104,111	3/4	119,683	3/4	135,269	3/4	150,839
9	11,579	9	27,218	9	42,570	9	57,683	9	73,281	9	88,880	9	104,435	9	120,008	9	135,593	9	151,162
1/4	11,904	1/4	27,544	1/4	42,880	1/4	58,008	1/4	73,606	1/4	89,205	1/4	104,759	1/4	120,332	1/4	135,918	1/4	151,486
1/2	12,230	1/2	27,869	1/2	43,189	1/2	58,333	1/2	73,931	1/2	89,530	1/2	105,082	1/2	120,657	1/2	136,243	1/2	151,810
3/4	12,556	3/4	28,195	3/4	43,499	3/4	58,658	3/4	74,256	3/4	89,855	3/4	105,406	3/4	120,982	3/4	136,567	3/4	152,134
10	12,882	10	28,521	10	43,808	10	58,983	10	74,581	10	90,180	10	105,730	10	121,306	10	136,892	10	152,458
1/4	13,208	1/4	28,846	1/4	44,118	1/4	59,308	1/4	74,906	1/4	90,505	1/4	106,053	1/4	121,631	1/4	137,217	1/4	152,782
1/2	13,534	1/2	29,171	1/2	44,427	1/2	59,633	1/2	75,231	1/2	90,830	1/2	106,377	1/2	121,956	1/2	137,541	1/2	153,106
3/4	13,859	3/4	29,496	3/4	44,737	3/4	59,958	3/4	75,556	3/4	91,155	3/4	106,700	3/4	122,280	3/4	137,866	3/4	153,430
11	14,185	11	29,821	11	45,046	11	60,283	11	75,881	11	91,480	11	107,024	11	122,605	11	138,191	11	153,754
1/4	14,511	1/4	30,146	1/4	45,355	1/4	60,608	1/4	76,206	1/4	91,804	1/4	107,348	1/4	122,930	1/4	138,515	1/4	154,078
1/2	14,837	1/2	30,470	1/2	45,665	1/2	60,933	1/2	76,531	1/2	92,128	1/2	107,673	1/2	123,255	1/2	138,840	1/2	154,402
3/4	15,163	3/4	30,795	3/4	45,974	3/4	61,258	3/4	76,856	3/4	92,452	3/4	107,997	3/4	123,579	3/4	139,165	3/4	154,726

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

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BARGE "CBC 319"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	155,050	0	167,995	0	179,969	0	191,932	0	203,822	0		0		0		0		0	
1/4	155,373	1/4	168,246	1/4	180,219	1/4	192,181	1/4	204,060	1/4		1/4		1/4		1/4		1/4	
1/2	155,697	1/2	168,496	1/2	180,468	1/2	192,430	1/2	204,298	1/2		1/2		1/2		1/2		1/2	
3/4	156,021	3/4	168,747	3/4	180,717	3/4	192,680	3/4	204,536	3/4		3/4		3/4		3/4		3/4	
1	156,345	1	168,997	1	180,966	1	192,929	1	204,774	1		1		1		1		1	
1/4	156,669	1/4	169,248	1/4	181,215	1/4	193,178	1/4	204,972	1/4		1/4		1/4		1/4		1/4	
1/2	156,993	1/2	169,498	1/2	181,465	1/2	193,427	1/2	205,170	1/2		1/2		1/2		1/2		1/2	
3/4	157,317	3/4	169,749	3/4	181,714	3/4	193,677	3/4	205,368	3/4		3/4		3/4		3/4		3/4	
2	157,641	2	170,000	2	181,963	2	193,926	2	205,566	2		2		2		2		2	
1/4	157,965	1/4	170,249	1/4	182,212	1/4	194,175	1/4	205,711	1/4		1/4		1/4		1/4		1/4	
1/2	158,289	1/2	170,498	1/2	182,462	1/2	194,424	1/2	205,856	1/2		1/2		1/2		1/2		1/2	
3/4	158,613	3/4	170,748	3/4	182,711	3/4	194,673	3/4	206,000	3/4		3/4		3/4		3/4		3/4	
3	158,937	3	170,997	3	182,960	3	194,923	3	206,145	3		3		3		3		3	
1/4	159,197	1/4	171,246	1/4	183,209	1/4	195,172	1/4	206,236	1/4		1/4		1/4		1/4		1/4	
1/2	159,456	1/2	171,496	1/2	183,458	1/2	195,421	1/2	206,326	1/2		1/2		1/2		1/2		1/2	
3/4	159,716	3/4	171,745	3/4	183,708	3/4	195,670	3/4		3/4		3/4		3/4		3/4		3/4	
4	159,976	4	171,994	4	183,957	4	195,920	4		4		4		4		4		4	
1/4	160,227	1/4	172,243	1/4	184,206	1/4	196,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,477	1/2	172,493	1/2	184,455	1/2	196,418	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,728	3/4	172,742	3/4	184,705	3/4	196,667	3/4		3/4		3/4		3/4		3/4		3/4	
5	160,978	5	172,991	5	184,954	5	196,917	5		5		5		5		5		5	
1/4	161,229	1/4	173,240	1/4	185,203	1/4	197,166	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,480	1/2	173,489	1/2	185,452	1/2	197,415	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,730	3/4	173,739	3/4	185,701	3/4	197,664	3/4		3/4		3/4		3/4		3/4		3/4	
6	161,981	6	173,988	6	185,951	6	197,913	6		6		6		6		6		6	
1/4	162,231	1/4	174,237	1/4	186,200	1/4	198,163	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,482	1/2	174,486	1/2	186,449	1/2	198,412	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,732	3/4	174,736	3/4	186,698	3/4	198,661	3/4		3/4		3/4		3/4		3/4		3/4	
7	162,983	7	174,985	7	186,948	7	198,910	7		7		7		7		7		7	
1/4	163,234	1/4	175,234	1/4	187,197	1/4	199,157	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,484	1/2	175,483	1/2	187,446	1/2	199,404	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,735	3/4	175,732	3/4	187,695	3/4	199,651	3/4		3/4		3/4		3/4		3/4		3/4	
8	163,985	8	175,982	8	187,944	8	199,898	8		8		8		8		8		8	
1/4	164,236	1/4	176,231	1/4	188,194	1/4	200,144	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,487	1/2	176,480	1/2	188,443	1/2	200,390	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,737	3/4	176,729	3/4	188,692	3/4	200,637	3/4		3/4		3/4		3/4		3/4		3/4	
9	164,988	9	176,979	9	188,941	9	200,883	9		9		9		9		9		9	
1/4	165,238	1/4	177,228	1/4	189,191	1/4	201,129	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,489	1/2	177,477	1/2	189,440	1/2	201,375	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,740	3/4	177,726	3/4	189,689	3/4	201,620	3/4		3/4		3/4		3/4		3/4		3/4	
10	165,990	10	177,976	10	189,938	10	201,866	10		10		10		10		10		10	
1/4	166,241	1/4	178,225	1/4	190,187	1/4	202,111	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,491	1/2	178,474	1/2	190,437	1/2	202,356	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,742	3/4	178,723	3/4	190,686	3/4	202,601	3/4		3/4		3/4		3/4		3/4		3/4	
11	166,993	11	178,972	11	190,935	11	202,847	11		11		11		11		11		11	
1/4	167,243	1/4	179,222	1/4	191,184	1/4	203,090	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,494	1/2	179,471	1/2	191,434	1/2	203,334	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,744	3/4	179,720	3/4	191,683	3/4	203,578	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
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BARGE "CBC 319"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06 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	100	0	257	0	412	0		0		0		0		0		0	
1/4	1	1/4	103	1/4	260	1/4	415	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1	1/2	106	1/2	263	1/2	417	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2	3/4	109	3/4	267	3/4	420	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3	1	112	1	270	1	423	1		1		1		1		1		1	
1/4	4	1/4	115	1/4	273	1/4	426	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5	1/2	119	1/2	277	1/2	429	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	6	3/4	122	3/4	280	3/4	431	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	7	2	125	2	284	2	434	2		2		2		2		2		2	
1/4	9	1/4	128	1/4	287	1/4	437	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	10	1/2	131	1/2	290	1/2	440	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	12	3/4	134	3/4	294	3/4	442	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	13	3	137	3	297	3	445	3		3		3		3		3		3	
1/4	15	1/4	140	1/4	300	1/4	447	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	17	1/2	144	1/2	304	1/2	450	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	19	3/4	147	3/4	307	3/4	452	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	20	4	150	4	311	4	455	4		4		4		4		4		4	
1/4	22	1/4	153	1/4	314	1/4	457	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	24	1/2	156	1/2	317	1/2	460	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	26	3/4	160	3/4	320	3/4	462	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	28	5	163	5	324	5	465	5		5		5		5		5		5	
1/4	31	1/4	166	1/4	327	1/4	467	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	33	1/2	169	1/2	330	1/2	469	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	35	3/4	173	3/4	334	3/4	471	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	37	6	176	6	337	6	474	6		6		6		6		6		6	
1/4	39	1/4	179	1/4	340	1/4	476	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42	1/2	183	1/2	343	1/2	478	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44	3/4	186	3/4	347	3/4	480	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46	7	189	7	350	7	482	7		7		7		7		7		7	
1/4	49	1/4	192	1/4	353	1/4	484	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51	1/2	196	1/2	356	1/2	486	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54	3/4	199	3/4	360	3/4	488	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	56	8	202	8	363	8	489	8		8		8		8		8		8	
1/4	59	1/4	206	1/4	366	1/4	491	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62	1/2	209	1/2	369	1/2	493	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	64	3/4	213	3/4	372	3/4	494	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	67	9	216	9	375	9	496	9		9		9		9		9		9	
1/4	69	1/4	219	1/4	379	1/4	497	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72	1/2	223	1/2	382	1/2	499	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75	3/4	226	3/4	385	3/4	500	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	78	10	229	10	388	10	502	10		10		10		10		10		10	
1/4	80	1/4	233	1/4	391	1/4	502	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83	1/2	236	1/2	394	1/2	502	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86	3/4	240	3/4	397	3/4	502	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	89	11	243	11	400	11	502	11		11		11		11		11		11	
1/4	92	1/4	246	1/4	403	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	95	1/2	250	1/2	406	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	98	3/4	253	3/4	409	3/4		3/4	3/4	3/4	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.

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 8" DIAMETER HATCH.

STRAPPED: 12/19/2013 CL
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PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
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BARGE "CBC 319"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 4'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 STBD IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 STBD, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 258'-06"

December 19, 2013

PRECISION MEASUREMENT
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BARGE "CBC 319"

1 PORT OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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		0	210,305	0	194,637	0	178,970	0	163,232	0	147,477	0	131,721	0	115,962
1/4		1/4		1/4		1/4	209,978	1/4	194,311	1/4	178,643	1/4	162,904	1/4	147,149	1/4	131,393	1/4	115,634
1/2		1/2		1/2		1/2	209,652	1/2	193,985	1/2	178,317	1/2	162,576	1/2	146,820	1/2	131,064	1/2	115,306
3/4		3/4		3/4		3/4	209,326	3/4	193,658	3/4	177,991	3/4	162,247	3/4	146,492	3/4	130,736	3/4	114,977
1		1		1	223,576	1	208,999	1	193,332	1	177,664	1	161,919	1	146,164	1	130,408	1	114,649
1/4		1/4		1/4	223,410	1/4	208,673	1/4	193,005	1/4	177,338	1/4	161,591	1/4	145,836	1/4	130,079	1/4	114,321
1/2		1/2		1/2	223,245	1/2	208,346	1/2	192,679	1/2	177,011	1/2	161,263	1/2	145,508	1/2	129,751	1/2	113,992
3/4		3/4		3/4	223,024	3/4	208,020	3/4	192,353	3/4	176,685	3/4	160,934	3/4	145,179	3/4	129,423	3/4	113,664
2		2		2	222,804	2	207,694	2	192,026	2	176,358	2	160,606	2	144,851	2	129,095	2	113,336
1/4		1/4		1/4	222,583	1/4	207,367	1/4	191,700	1/4	176,031	1/4	160,278	1/4	144,523	1/4	128,766	1/4	113,007
1/2		1/2		1/2	222,363	1/2	207,041	1/2	191,373	1/2	175,705	1/2	159,950	1/2	144,195	1/2	128,438	1/2	112,679
3/4		3/4		3/4	222,089	3/4	206,714	3/4	191,047	3/4	175,377	3/4	159,622	3/4	143,866	3/4	128,110	3/4	112,351
3		3		3	221,815	3	206,388	3	190,720	3	175,048	3	159,293	3	143,538	3	127,781	3	112,022
1/4		1/4		1/4	221,541	1/4	206,062	1/4	190,394	1/4	174,720	1/4	158,965	1/4	143,210	1/4	127,453	1/4	111,694
1/2		1/2		1/2	221,267	1/2	205,735	1/2	190,068	1/2	174,392	1/2	158,637	1/2	142,882	1/2	127,125	1/2	111,366
3/4		3/4		3/4	220,952	3/4	205,409	3/4	189,741	3/4	174,064	3/4	158,309	3/4	142,553	3/4	126,796	3/4	111,038
4		4		4	220,638	4	205,082	4	189,415	4	173,735	4	157,980	4	142,225	4	126,468	4	110,709
1/4		1/4		1/4	220,324	1/4	204,756	1/4	189,088	1/4	173,407	1/4	157,652	1/4	141,897	1/4	126,140	1/4	110,381
1/2		1/2		1/2	220,009	1/2	204,430	1/2	188,762	1/2	173,079	1/2	157,324	1/2	141,569	1/2	125,811	1/2	110,053
3/4		3/4		3/4	219,689	3/4	204,103	3/4	188,436	3/4	172,751	3/4	156,996	3/4	141,241	3/4	125,483	3/4	109,724
5		5		5	219,369	5	203,777	5	188,109	5	172,423	5	156,667	5	140,912	5	125,155	5	109,396
1/4		1/4		1/4	219,048	1/4	203,450	1/4	187,783	1/4	172,094	1/4	156,339	1/4	140,584	1/4	124,827	1/4	109,068
1/2		1/2		1/2	218,728	1/2	203,124	1/2	187,456	1/2	171,766	1/2	156,011	1/2	140,256	1/2	124,498	1/2	108,739
3/4		3/4		3/4	218,407	3/4	202,798	3/4	187,130	3/4	171,438	3/4	155,683	3/4	139,928	3/4	124,170	3/4	108,411
6		6		6	218,085	6	202,471	6	186,804	6	171,110	6	155,354	6	139,599	6	123,842	6	108,083
1/4		1/4		1/4	217,764	1/4	202,145	1/4	186,477	1/4	170,781	1/4	155,026	1/4	139,271	1/4	123,513	1/4	107,754
1/2		1/2		1/2	217,442	1/2	201,818	1/2	186,151	1/2	170,453	1/2	154,698	1/2	138,943	1/2	123,185	1/2	107,426
3/4		3/4		3/4	217,120	3/4	201,492	3/4	185,824	3/4	170,125	3/4	154,370	3/4	138,615	3/4	122,857	3/4	107,098
7		7		7	216,798	7	201,165	7	185,498	7	169,797	7	154,042	7	138,286	7	122,528	7	106,769
1/4		1/4		1/4	216,475	1/4	200,839	1/4	185,172	1/4	169,468	1/4	153,713	1/4	137,958	1/4	122,200	1/4	106,441
1/2		1/2		1/2	216,153	1/2	200,513	1/2	184,845	1/2	169,140	1/2	153,385	1/2	137,630	1/2	121,872	1/2	106,113
3/4		3/4		3/4	215,830	3/4	200,186	3/4	184,519	3/4	168,812	3/4	153,057	3/4	137,302	3/4	121,543	3/4	105,785
8		8		8	215,508	8	199,860	8	184,192	8	168,484	8	152,729	8	136,974	8	121,215	8	105,456
1/4		1/4		1/4	215,185	1/4	199,533	1/4	183,866	1/4	168,156	1/4	152,400	1/4	136,645	1/4	120,887	1/4	105,128
1/2		1/2		1/2	214,862	1/2	199,207	1/2	183,540	1/2	167,827	1/2	152,072	1/2	136,317	1/2	120,558	1/2	104,800
3/4		3/4		3/4	214,539	3/4	198,881	3/4	183,213	3/4	167,499	3/4	151,744	3/4	135,989	3/4	120,230	3/4	104,471
9		9		9	214,216	9	198,554	9	182,887	9	167,171	9	151,416	9	135,661	9	119,902	9	104,143
1/4		1/4		1/4	213,892	1/4	198,228	1/4	182,560	1/4	166,843	1/4	151,087	1/4	135,332	1/4	119,574	1/4	103,815
1/2		1/2		1/2	213,569	1/2	197,901	1/2	182,234	1/2	166,514	1/2	150,759	1/2	135,004	1/2	119,245	1/2	103,486
3/4		3/4		3/4	213,243	3/4	197,575	3/4	181,907	3/4	166,186	3/4	150,431	3/4	134,676	3/4	118,917	3/4	103,158
10		10		10	212,916	10	197,249	10	181,581	10	165,858	10	150,103	10	134,347	10	118,589	10	102,830
1/4		1/4		1/4	212,590	1/4	196,922	1/4	181,255	1/4	165,530	1/4	149,775	1/4	134,019	1/4	118,260	1/4	102,501
1/2		1/2		1/2	212,263	1/2	196,596	1/2	180,928	1/2	165,201	1/2	149,446	1/2	133,691	1/2	117,932	1/2	102,173
3/4		3/4		3/4	211,937	3/4	196,269	3/4	180,602	3/4	164,873	3/4	149,118	3/4	133,363	3/4	117,604	3/4	101,845
11		11		11	211,611	11	195,943	11	180,275	11	164,545	11	148,790	11	133,034	11	117,275	11	101,517
1/4		1/4		1/4	211,284	1/4	195,617	1/4	179,949	1/4	164,217	1/4	148,462	1/4	132,706	1/4	116,947	1/4	101,188
1/2		1/2		1/2	210,958	1/2	195,290	1/2	179,623	1/2	163,889	1/2	148,133	1/2	132,378	1/2	116,619	1/2	100,860
3/4		3/4		3/4	210,631	3/4	194,964	3/4	179,296	3/4	163,560	3/4	147,805	3/4	132,049	3/4	116,290	3/4	100,532

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 T ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 319"

1 PORT OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	100,203	0	84,444	0	68,686	0	52,927	0	37,263	0	21,516	0	5,758	0		0		0	
1/4	99,875	1/4	84,116	1/4	68,357	1/4	52,598	1/4	36,937	1/4	21,188	1/4	5,430	1/4	1/4	1/4		1/4	
1/2	99,547	1/2	83,788	1/2	68,029	1/2	52,270	1/2	36,611	1/2	20,859	1/2	5,101	1/2	1/2	1/2	1/2	1/2	1/2
3/4	99,218	3/4	83,460	3/4	67,701	3/4	51,942	3/4	36,284	3/4	20,531	3/4	4,774	3/4	3/4	3/4	3/4	3/4	3/4
1	98,890	1	83,131	1	67,372	1	51,614	1	35,958	1	20,203	1	4,446	1		1		1	
1/4	98,562	1/4	82,803	1/4	67,044	1/4	51,285	1/4	35,631	1/4	19,874	1/4	4,118	1/4	1/4	1/4		1/4	
1/2	98,233	1/2	82,475	1/2	66,716	1/2	50,957	1/2	35,305	1/2	19,546	1/2	3,791	1/2	1/2	1/2	1/2	1/2	1/2
3/4	97,905	3/4	82,146	3/4	66,387	3/4	50,629	3/4	34,976	3/4	19,218	3/4	3,469	3/4	3/4	3/4	3/4	3/4	3/4
2	97,577	2	81,818	2	66,059	2	50,301	2	34,648	2	18,890	2	3,147	2		2		2	
1/4	97,249	1/4	81,490	1/4	65,731	1/4	49,973	1/4	34,320	1/4	18,561	1/4	2,825	1/4	1/4	1/4		1/4	
1/2	96,920	1/2	81,161	1/2	65,403	1/2	49,645	1/2	33,991	1/2	18,233	1/2	2,503	1/2	1/2	1/2	1/2	1/2	1/2
3/4	96,592	3/4	80,833	3/4	65,074	3/4	49,318	3/4	33,663	3/4	17,905	3/4	2,226	3/4	3/4	3/4	3/4	3/4	3/4
3	96,264	3	80,505	3	64,746	3	48,990	3	33,335	3	17,576	3	1,949	3		3		3	
1/4	95,935	1/4	80,176	1/4	64,418	1/4	48,662	1/4	33,006	1/4	17,248	1/4	1,673	1/4	1/4	1/4		1/4	
1/2	95,607	1/2	79,848	1/2	64,089	1/2	48,335	1/2	32,678	1/2	16,920	1/2	1,396	1/2	1/2	1/2	1/2	1/2	1/2
3/4	95,279	3/4	79,520	3/4	63,761	3/4	48,009	3/4	32,350	3/4	16,591	3/4	1,201	3/4	3/4	3/4	3/4	3/4	3/4
4	94,950	4	79,192	4	63,433	4	47,684	4	32,022	4	16,263	4	1,006	4		4		4	
1/4	94,622	1/4	78,863	1/4	63,104	1/4	47,358	1/4	31,693	1/4	15,935	1/4	811	1/4	1/4	1/4		1/4	
1/2	94,294	1/2	78,535	1/2	62,776	1/2	47,033	1/2	31,365	1/2	15,606	1/2	616	1/2	1/2	1/2	1/2	1/2	1/2
3/4	93,965	3/4	78,207	3/4	62,448	3/4	46,707	3/4	31,037	3/4	15,278	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	93,637	5	77,878	5	62,119	5	46,381	5	30,708	5	14,950	5		5		5		5	
1/4	93,309	1/4	77,550	1/4	61,791	1/4	46,056	1/4	30,380	1/4	14,622	1/4		1/4	1/4	1/4		1/4	
1/2	92,980	1/2	77,222	1/2	61,463	1/2	45,730	1/2	30,052	1/2	14,293	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	92,652	3/4	76,893	3/4	61,134	3/4	45,405	3/4	29,723	3/4	13,965	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	92,324	6	76,565	6	60,806	6	45,079	6	29,395	6	13,637	6		6		6		6	
1/4	91,996	1/4	76,237	1/4	60,478	1/4	44,753	1/4	29,067	1/4	13,308	1/4		1/4	1/4	1/4		1/4	
1/2	91,667	1/2	75,908	1/2	60,150	1/2	44,428	1/2	28,739	1/2	12,980	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	91,339	3/4	75,580	3/4	59,821	3/4	44,102	3/4	28,410	3/4	12,652	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	91,011	7	75,252	7	59,493	7	43,777	7	28,082	7	12,323	7		7		7		7	
1/4	90,682	1/4	74,923	1/4	59,165	1/4	43,451	1/4	27,754	1/4	11,995	1/4		1/4	1/4	1/4		1/4	
1/2	90,354	1/2	74,595	1/2	58,836	1/2	43,126	1/2	27,425	1/2	11,667	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	90,026	3/4	74,267	3/4	58,508	3/4	42,800	3/4	27,097	3/4	11,339	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	89,697	8	73,939	8	58,180	8	42,474	8	26,769	8	11,010	8		8		8		8	
1/4	89,369	1/4	73,610	1/4	57,851	1/4	42,149	1/4	26,440	1/4	10,682	1/4		1/4	1/4	1/4		1/4	
1/2	89,041	1/2	73,282	1/2	57,523	1/2	41,823	1/2	26,112	1/2	10,354	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,712	3/4	72,954	3/4	57,195	3/4	41,498	3/4	25,784	3/4	10,025	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	88,384	9	72,625	9	56,866	9	41,172	9	25,456	9	9,697	9		9		9		9	
1/4	88,056	1/4	72,297	1/4	56,538	1/4	40,846	1/4	25,127	1/4	9,369	1/4		1/4	1/4	1/4		1/4	
1/2	87,728	1/2	71,969	1/2	56,210	1/2	40,521	1/2	24,799	1/2	9,040	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	87,399	3/4	71,640	3/4	55,882	3/4	40,195	3/4	24,471	3/4	8,712	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	87,071	10	71,312	10	55,553	10	39,870	10	24,142	10	8,384	10		10		10		10	
1/4	86,743	1/4	70,984	1/4	55,225	1/4	39,544	1/4	23,814	1/4	8,056	1/4		1/4	1/4	1/4		1/4	
1/2	86,414	1/2	70,655	1/2	54,897	1/2	39,219	1/2	23,486	1/2	7,727	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,086	3/4	70,327	3/4	54,568	3/4	38,893	3/4	23,157	3/4	7,399	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	85,758	11	69,999	11	54,240	11	38,567	11	22,829	11	7,071	11		11		11		11	
1/4	85,429	1/4	69,671	1/4	53,912	1/4	38,242	1/4	22,501	1/4	6,742	1/4		1/4	1/4	1/4		1/4	
1/2	85,101	1/2	69,342	1/2	53,583	1/2	37,916	1/2	22,173	1/2	6,414	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,773	3/4	69,014	3/4	53,255	3/4	37,590	3/4	21,844	3/4	6,086	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

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



BARGE "CBC 319"

1 STBD OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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		0	210,039	0	194,372	0	178,704	0	162,965	0	147,210	0	131,454	0	115,695
1/4		1/4		1/4		1/4	209,713	1/4	194,046	1/4	178,378	1/4	162,637	1/4	146,881	1/4	131,125	1/4	115,367
1/2		1/2		1/2		1/2	209,387	1/2	193,719	1/2	178,052	1/2	162,308	1/2	146,553	1/2	130,797	1/2	115,038
3/4		3/4		3/4		3/4	223,637	3/4	209,060	3/4	193,393	3/4	161,980	3/4	146,225	3/4	130,469	3/4	114,710
1		1		1		1	223,471	1	208,734	1	193,066	1	161,652	1	145,897	1	130,140	1	114,382
1/4		1/4		1/4		1/4	223,306	1/4	208,407	1/4	192,740	1/4	161,324	1/4	145,569	1/4	129,812	1/4	114,053
1/2		1/2		1/2		1/2	223,085	1/2	208,081	1/2	192,414	1/2	160,995	1/2	145,240	1/2	129,484	1/2	113,725
3/4		3/4		3/4		3/4	222,865	3/4	207,755	3/4	192,087	3/4	160,667	3/4	144,912	3/4	129,156	3/4	113,397
2		2		2		2	222,644	2	207,428	2	191,761	2	160,339	2	144,584	2	128,827	2	113,068
1/4		1/4		1/4		1/4	222,424	1/4	207,102	1/4	191,434	1/4	160,011	1/4	144,256	1/4	128,499	1/4	112,740
1/2		1/2		1/2		1/2	222,150	1/2	206,775	1/2	191,108	1/2	159,683	1/2	143,927	1/2	128,171	1/2	112,412
3/4		3/4		3/4		3/4	221,876	3/4	206,449	3/4	190,781	3/4	159,354	3/4	143,599	3/4	127,842	3/4	112,083
3		3		3		3	221,602	3	206,123	3	190,455	3	159,026	3	143,271	3	127,514	3	111,755
1/4		1/4		1/4		1/4	221,328	1/4	205,796	1/4	190,129	1/4	158,698	1/4	142,943	1/4	127,186	1/4	111,427
1/2		1/2		1/2		1/2	221,013	1/2	205,470	1/2	189,802	1/2	158,370	1/2	142,614	1/2	126,857	1/2	111,099
3/4		3/4		3/4		3/4	220,699	3/4	205,143	3/4	189,476	3/4	158,041	3/4	142,286	3/4	126,529	3/4	110,770
4		4		4		4	220,385	4	204,817	4	189,149	4	157,713	4	141,958	4	126,201	4	110,442
1/4		1/4		1/4		1/4	220,070	1/4	204,491	1/4	188,823	1/4	157,385	1/4	141,630	1/4	125,872	1/4	110,114
1/2		1/2		1/2		1/2	219,750	1/2	204,164	1/2	188,497	1/2	157,057	1/2	141,302	1/2	125,544	1/2	109,785
3/4		3/4		3/4		3/4	219,430	3/4	203,838	3/4	188,170	3/4	156,728	3/4	140,973	3/4	125,216	3/4	109,457
5		5		5		5	219,109	5	203,511	5	187,844	5	156,400	5	140,645	5	124,888	5	109,129
1/4		1/4		1/4		1/4	218,789	1/4	203,185	1/4	187,517	1/4	156,072	1/4	140,317	1/4	124,559	1/4	108,800
1/2		1/2		1/2		1/2	218,468	1/2	202,859	1/2	187,191	1/2	155,744	1/2	139,989	1/2	124,231	1/2	108,472
3/4		3/4		3/4		3/4	218,146	3/4	202,532	3/4	186,865	3/4	155,415	3/4	139,660	3/4	123,903	3/4	108,144
6		6		6		6	217,825	6	202,206	6	186,538	6	155,087	6	139,332	6	123,574	6	107,815
1/4		1/4		1/4		1/4	217,503	1/4	201,879	1/4	186,212	1/4	154,759	1/4	139,004	1/4	123,246	1/4	107,487
1/2		1/2		1/2		1/2	217,181	1/2	201,553	1/2	185,885	1/2	154,431	1/2	138,676	1/2	122,918	1/2	107,159
3/4		3/4		3/4		3/4	216,859	3/4	201,226	3/4	185,559	3/4	154,103	3/4	138,347	3/4	122,589	3/4	106,830
7		7		7		7	216,536	7	200,900	7	185,233	7	153,774	7	138,019	7	122,261	7	106,502
1/4		1/4		1/4		1/4	216,214	1/4	200,574	1/4	184,906	1/4	153,446	1/4	137,691	1/4	121,933	1/4	106,174
1/2		1/2		1/2		1/2	215,891	1/2	200,247	1/2	184,580	1/2	153,118	1/2	137,363	1/2	121,604	1/2	105,846
3/4		3/4		3/4		3/4	215,569	3/4	199,921	3/4	184,253	3/4	152,790	3/4	137,035	3/4	121,276	3/4	105,517
8		8		8		8	215,246	8	199,594	8	183,927	8	152,461	8	136,706	8	120,948	8	105,189
1/4		1/4		1/4		1/4	214,923	1/4	199,268	1/4	183,601	1/4	152,133	1/4	136,378	1/4	120,619	1/4	104,861
1/2		1/2		1/2		1/2	214,600	1/2	198,942	1/2	183,274	1/2	151,805	1/2	136,050	1/2	120,291	1/2	104,532
3/4		3/4		3/4		3/4	214,277	3/4	198,615	3/4	182,948	3/4	151,477	3/4	135,722	3/4	119,963	3/4	104,204
9		9		9		9	213,953	9	198,289	9	182,621	9	151,148	9	135,393	9	119,635	9	103,876
1/4		1/4		1/4		1/4	213,630	1/4	197,962	1/4	182,295	1/4	150,820	1/4	135,065	1/4	119,306	1/4	103,547
1/2		1/2		1/2		1/2	213,304	1/2	197,636	1/2	181,968	1/2	150,492	1/2	134,737	1/2	118,978	1/2	103,219
3/4		3/4		3/4		3/4	212,977	3/4	197,310	3/4	181,642	3/4	150,164	3/4	134,408	3/4	118,650	3/4	102,891
10		10		10		10	212,651	10	196,983	10	181,316	10	149,836	10	134,080	10	118,321	10	102,562
1/4		1/4		1/4		1/4	212,324	1/4	196,657	1/4	180,989	1/4	149,507	1/4	133,752	1/4	117,993	1/4	102,234
1/2		1/2		1/2		1/2	211,998	1/2	196,330	1/2	180,663	1/2	149,179	1/2	133,424	1/2	117,665	1/2	101,906
3/4		3/4		3/4		3/4	211,672	3/4	196,004	3/4	180,336	3/4	148,851	3/4	133,095	3/4	117,336	3/4	101,578
11		11		11		11	211,345	11	195,678	11	180,010	11	148,523	11	132,767	11	117,008	11	101,249
1/4		1/4		1/4		1/4	211,019	1/4	195,351	1/4	179,684	1/4	148,194	1/4	132,439	1/4	116,680	1/4	100,921
1/2		1/2		1/2		1/2	210,692	1/2	195,025	1/2	179,357	1/2	147,866	1/2	132,110	1/2	116,351	1/2	100,593
3/4		3/4		3/4		3/4	210,366	3/4	194,698	3/4	179,031	3/4	147,538	3/4	131,782	3/4	116,023	3/4	100,264

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 T ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "CBC 319"

**1 STBD
OUTAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	99,936	0	84,177	0	68,418	0	52,659	0	36,940	0	21,187	0	5,429	0		0		0	
1/4	99,608	1/4	83,849	1/4	68,090	1/4	52,331	1/4	36,612	1/4	20,859	1/4	5,101	1/4	1/4		1/4	1/4	
1/2	99,279	1/2	83,521	1/2	67,762	1/2	52,003	1/2	36,284	1/2	20,531	1/2	4,773	1/2	1/2		1/2	1/2	
3/4	98,951	3/4	83,192	3/4	67,433	3/4	51,675	3/4	35,956	3/4	20,202	3/4	4,446	3/4	3/4		3/4	3/4	
1	98,623	1	82,864	1	67,105	1	51,346	1	35,629	1	19,874	1	4,118	1		1		1	
1/4	98,294	1/4	82,536	1/4	66,777	1/4	51,018	1/4	35,301	1/4	19,546	1/4	3,790	1/4	1/4		1/4	1/4	
1/2	97,966	1/2	82,207	1/2	66,448	1/2	50,690	1/2	34,973	1/2	19,218	1/2	3,468	1/2	1/2		1/2	1/2	
3/4	97,638	3/4	81,879	3/4	66,120	3/4	50,362	3/4	34,645	3/4	18,889	3/4	3,147	3/4	3/4		3/4	3/4	
2	97,310	2	81,551	2	65,792	2	50,034	2	34,317	2	18,561	2	2,825	2		2		2	
1/4	96,981	1/4	81,222	1/4	65,464	1/4	49,706	1/4	33,989	1/4	18,233	1/4	2,503	1/4	1/4		1/4	1/4	
1/2	96,653	1/2	80,894	1/2	65,135	1/2	49,378	1/2	33,661	1/2	17,904	1/2	2,226	1/2	1/2		1/2	1/2	
3/4	96,325	3/4	80,566	3/4	64,807	3/4	49,051	3/4	33,334	3/4	17,576	3/4	1,949	3/4	3/4		3/4	3/4	
3	95,996	3	80,237	3	64,479	3	48,723	3	33,006	3	17,248	3	1,672	3		3		3	
1/4	95,668	1/4	79,909	1/4	64,150	1/4	48,395	1/4	32,678	1/4	16,919	1/4	1,395	1/4	1/4		1/4	1/4	
1/2	95,340	1/2	79,581	1/2	63,822	1/2	48,067	1/2	32,350	1/2	16,591	1/2	1,200	1/2	1/2		1/2	1/2	
3/4	95,011	3/4	79,253	3/4	63,494	3/4	47,740	3/4	32,021	3/4	16,263	3/4	1,005	3/4	3/4		3/4	3/4	
4	94,683	4	78,924	4	63,165	4	47,412	4	31,693	4	15,935	4	810	4		4		4	
1/4	94,355	1/4	78,596	1/4	62,837	1/4	47,085	1/4	31,365	1/4	15,606	1/4	616	1/4	1/4		1/4	1/4	
1/2	94,026	1/2	78,268	1/2	62,509	1/2	46,757	1/2	31,036	1/2	15,278	1/2		1/2	1/2		1/2	1/2	
3/4	93,698	3/4	77,939	3/4	62,180	3/4	46,429	3/4	30,708	3/4	14,950	3/4		3/4	3/4		3/4	3/4	
5	93,370	5	77,611	5	61,852	5	46,102	5	30,380	5	14,621	5		5		5		5	
1/4	93,041	1/4	77,283	1/4	61,524	1/4	45,774	1/4	30,051	1/4	14,293	1/4		1/4	1/4		1/4	1/4	
1/2	92,713	1/2	76,954	1/2	61,195	1/2	45,447	1/2	29,723	1/2	13,965	1/2		1/2	1/2		1/2	1/2	
3/4	92,385	3/4	76,626	3/4	60,867	3/4	45,120	3/4	29,395	3/4	13,636	3/4		3/4	3/4		3/4	3/4	
6	92,057	6	76,298	6	60,539	6	44,793	6	29,067	6	13,308	6		6		6		6	
1/4	91,728	1/4	75,969	1/4	60,211	1/4	44,466	1/4	28,738	1/4	12,980	1/4		1/4	1/4		1/4	1/4	
1/2	91,400	1/2	75,641	1/2	59,882	1/2	44,139	1/2	28,410	1/2	12,652	1/2		1/2	1/2		1/2	1/2	
3/4	91,072	3/4	75,313	3/4	59,554	3/4	43,812	3/4	28,082	3/4	12,323	3/4		3/4	3/4		3/4	3/4	
7	90,743	7	74,984	7	59,226	7	43,485	7	27,753	7	11,995	7		7		7		7	
1/4	90,415	1/4	74,656	1/4	58,897	1/4	43,157	1/4	27,425	1/4	11,667	1/4		1/4	1/4		1/4	1/4	
1/2	90,087	1/2	74,328	1/2	58,569	1/2	42,830	1/2	27,097	1/2	11,338	1/2		1/2	1/2		1/2	1/2	
3/4	89,758	3/4	74,000	3/4	58,241	3/4	42,503	3/4	26,768	3/4	11,010	3/4		3/4	3/4		3/4	3/4	
8	89,430	8	73,671	8	57,912	8	42,176	8	26,440	8	10,682	8		8		8		8	
1/4	89,102	1/4	73,343	1/4	57,584	1/4	41,849	1/4	26,112	1/4	10,353	1/4		1/4	1/4		1/4	1/4	
1/2	88,773	1/2	73,015	1/2	57,256	1/2	41,522	1/2	25,784	1/2	10,025	1/2		1/2	1/2		1/2	1/2	
3/4	88,445	3/4	72,686	3/4	56,927	3/4	41,195	3/4	25,455	3/4	9,697	3/4		3/4	3/4		3/4	3/4	
9	88,117	9	72,358	9	56,599	9	40,868	9	25,127	9	9,368	9		9		9		9	
1/4	87,789	1/4	72,030	1/4	56,271	1/4	40,541	1/4	24,799	1/4	9,040	1/4		1/4	1/4		1/4	1/4	
1/2	87,460	1/2	71,701	1/2	55,943	1/2	40,213	1/2	24,470	1/2	8,712	1/2		1/2	1/2		1/2	1/2	
3/4	87,132	3/4	71,373	3/4	55,614	3/4	39,886	3/4	24,142	3/4	8,384	3/4		3/4	3/4		3/4	3/4	
10	86,804	10	71,045	10	55,286	10	39,559	10	23,814	10	8,055	10		10		10		10	
1/4	86,475	1/4	70,716	1/4	54,958	1/4	39,232	1/4	23,485	1/4	7,727	1/4		1/4	1/4		1/4	1/4	
1/2	86,147	1/2	70,388	1/2	54,629	1/2	38,905	1/2	23,157	1/2	7,399	1/2		1/2	1/2		1/2	1/2	
3/4	85,819	3/4	70,060	3/4	54,301	3/4	38,578	3/4	22,829	3/4	7,070	3/4		3/4	3/4		3/4	3/4	
11	85,490	11	69,732	11	53,973	11	38,251	11	22,501	11	6,742	11		11		11		11	
1/4	85,162	1/4	69,403	1/4	53,644	1/4	37,923	1/4	22,172	1/4	6,414	1/4		1/4	1/4		1/4	1/4	
1/2	84,834	1/2	69,075	1/2	53,316	1/2	37,595	1/2	21,844	1/2	6,086	1/2		1/2	1/2		1/2	1/2	
3/4	84,505	3/4	68,747	3/4	52,988	3/4	37,268	3/4	21,516	3/4	5,757	3/4		3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

2 PORT OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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		0	205,270	0	189,968	0	174,666	0	159,293	0	143,903	0	128,513	0	113,119
1/4		1/4		1/4		1/4	204,951	1/4	189,649	1/4	174,347	1/4	158,973	1/4	143,583	1/4	128,192	1/4	112,798
1/2		1/2		1/2		1/2	204,633	1/2	189,330	1/2	174,028	1/2	158,652	1/2	143,262	1/2	127,871	1/2	112,478
3/4		3/4		3/4		3/4	204,314	3/4	189,012	3/4	173,709	3/4	158,331	3/4	142,941	3/4	127,551	3/4	112,157
1		1		1	218,229	1	203,995	1	188,693	1	173,391	1	158,011	1	142,621	1	127,230	1	111,836
1/4		1/4		1/4	218,067	1/4	203,676	1/4	188,374	1/4	173,072	1/4	157,690	1/4	142,300	1/4	126,909	1/4	111,516
1/2		1/2		1/2	217,905	1/2	203,357	1/2	188,055	1/2	172,753	1/2	157,369	1/2	141,980	1/2	126,589	1/2	111,195
3/4		3/4		3/4	217,690	3/4	203,039	3/4	187,736	3/4	172,434	3/4	157,049	3/4	141,659	3/4	126,268	3/4	110,874
2		2		2	217,475	2	202,720	2	187,418	2	172,115	2	156,728	2	141,338	2	125,947	2	110,554
1/4		1/4		1/4	217,260	1/4	202,401	1/4	187,099	1/4	171,796	1/4	156,408	1/4	141,018	1/4	125,626	1/4	110,233
1/2		1/2		1/2	217,045	1/2	202,082	1/2	186,780	1/2	171,477	1/2	156,087	1/2	140,697	1/2	125,306	1/2	109,912
3/4		3/4		3/4	216,777	3/4	201,763	3/4	186,461	3/4	171,156	3/4	155,766	3/4	140,377	3/4	124,985	3/4	109,591
3		3		3	216,510	3	201,445	3	186,142	3	170,836	3	155,446	3	140,056	3	124,664	3	109,271
1/4		1/4		1/4	216,242	1/4	201,126	1/4	185,824	1/4	170,515	1/4	155,125	1/4	139,735	1/4	124,344	1/4	108,950
1/2		1/2		1/2	215,975	1/2	200,807	1/2	185,505	1/2	170,194	1/2	154,804	1/2	139,415	1/2	124,023	1/2	108,629
3/4		3/4		3/4	215,668	3/4	200,488	3/4	185,186	3/4	169,874	3/4	154,484	3/4	139,094	3/4	123,702	3/4	108,309
4		4		4	215,361	4	200,169	4	184,867	4	169,553	4	154,163	4	138,773	4	123,382	4	107,988
1/4		1/4		1/4	215,054	1/4	199,851	1/4	184,548	1/4	169,232	1/4	153,843	1/4	138,453	1/4	123,061	1/4	107,667
1/2		1/2		1/2	214,747	1/2	199,532	1/2	184,230	1/2	168,912	1/2	153,522	1/2	138,132	1/2	122,740	1/2	107,347
3/4		3/4		3/4	214,434	3/4	199,213	3/4	183,911	3/4	168,591	3/4	153,201	3/4	137,812	3/4	122,419	3/4	107,026
5		5		5	214,121	5	198,894	5	183,592	5	168,271	5	152,881	5	137,491	5	122,099	5	106,705
1/4		1/4		1/4	213,808	1/4	198,575	1/4	183,273	1/4	167,950	1/4	152,560	1/4	137,170	1/4	121,778	1/4	106,384
1/2		1/2		1/2	213,496	1/2	198,257	1/2	182,954	1/2	167,629	1/2	152,240	1/2	136,850	1/2	121,457	1/2	106,064
3/4		3/4		3/4	213,182	3/4	197,938	3/4	182,636	3/4	167,309	3/4	151,919	3/4	136,529	3/4	121,137	3/4	105,743
6		6		6	212,868	6	197,619	6	182,317	6	166,988	6	151,598	6	136,208	6	120,816	6	105,422
1/4		1/4		1/4	212,554	1/4	197,300	1/4	181,998	1/4	166,667	1/4	151,278	1/4	135,888	1/4	120,495	1/4	105,102
1/2		1/2		1/2	212,240	1/2	196,981	1/2	181,679	1/2	166,347	1/2	150,957	1/2	135,567	1/2	120,175	1/2	104,781
3/4		3/4		3/4	211,925	3/4	196,663	3/4	181,360	3/4	166,026	3/4	150,636	3/4	135,247	3/4	119,854	3/4	104,460
7		7		7	211,611	7	196,344	7	181,042	7	165,706	7	150,316	7	134,926	7	119,533	7	104,140
1/4		1/4		1/4	211,296	1/4	196,025	1/4	180,723	1/4	165,385	1/4	149,995	1/4	134,605	1/4	119,212	1/4	103,819
1/2		1/2		1/2	210,981	1/2	195,706	1/2	180,404	1/2	165,064	1/2	149,675	1/2	134,285	1/2	118,892	1/2	103,498
3/4		3/4		3/4	210,666	3/4	195,387	3/4	180,085	3/4	164,744	3/4	149,354	3/4	133,964	3/4	118,571	3/4	103,177
8		8		8	210,351	8	195,069	8	179,766	8	164,423	8	149,033	8	133,643	8	118,250	8	102,857
1/4		1/4		1/4	210,036	1/4	194,750	1/4	179,448	1/4	164,103	1/4	148,713	1/4	133,323	1/4	117,930	1/4	102,536
1/2		1/2		1/2	209,721	1/2	194,431	1/2	179,129	1/2	163,782	1/2	148,392	1/2	133,002	1/2	117,609	1/2	102,215
3/4		3/4		3/4	209,405	3/4	194,112	3/4	178,810	3/4	163,461	3/4	148,071	3/4	132,682	3/4	117,288	3/4	101,895
9		9		9	209,090	9	193,793	9	178,491	9	163,141	9	147,751	9	132,361	9	116,968	9	101,574
1/4		1/4		1/4	208,774	1/4	193,475	1/4	178,172	1/4	162,820	1/4	147,430	1/4	132,040	1/4	116,647	1/4	101,253
1/2		1/2		1/2	208,458	1/2	193,156	1/2	177,854	1/2	162,499	1/2	147,110	1/2	131,720	1/2	116,326	1/2	100,933
3/4		3/4		3/4	208,139	3/4	192,837	3/4	177,535	3/4	162,179	3/4	146,789	3/4	131,399	3/4	116,005	3/4	100,612
10		10		10	207,821	10	192,518	10	177,216	10	161,858	10	146,468	10	131,078	10	115,685	10	100,291
1/4		1/4		1/4	207,502	1/4	192,199	1/4	176,897	1/4	161,538	1/4	146,148	1/4	130,758	1/4	115,364	1/4	99,970
1/2		1/2		1/2	207,183	1/2	191,881	1/2	176,578	1/2	161,217	1/2	145,827	1/2	130,437	1/2	115,043	1/2	99,650
3/4		3/4		3/4	206,864	3/4	191,562	3/4	176,260	3/4	160,896	3/4	145,506	3/4	130,116	3/4	114,723	3/4	99,329
11		11		11	206,545	11	191,243	11	175,941	11	160,576	11	145,186	11	129,796	11	114,402	11	99,008
1/4		1/4		1/4	206,227	1/4	190,924	1/4	175,622	1/4	160,255	1/4	144,865	1/4	129,475	1/4	114,081	1/4	98,688
1/2		1/2		1/2	205,908	1/2	190,606	1/2	175,303	1/2	159,934	1/2	144,545	1/2	129,154	1/2	113,761	1/2	98,367
3/4		3/4		3/4	205,589	3/4	190,287	3/4	174,984	3/4	159,614	3/4	144,224	3/4	128,833	3/4	113,440	3/4	98,046

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 T ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CBC 319"

2 PORT OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	97,726	0	82,332	0	66,938	0	51,545	0	36,411	0	21,018	0	5,625	0		0		0	
1/4	97,405	1/4	82,011	1/4	66,618	1/4	51,224	1/4	36,090	1/4	20,697	1/4	5,304	1/4	1/4	1/4		1/4	
1/2	97,084	1/2	81,691	1/2	66,297	1/2	50,903	1/2	35,770	1/2	20,376	1/2	4,984	1/2	1/2	1/2		1/2	
3/4	96,763	3/4	81,370	3/4	65,976	3/4	50,583	3/4	35,449	3/4	20,056	3/4	4,664	3/4	3/4	3/4		3/4	
1	96,443	1	81,049	1	65,656	1	50,264	1	35,128	1	19,735	1	4,344	1		1		1	
1/4	96,122	1/4	80,728	1/4	65,335	1/4	49,944	1/4	34,808	1/4	19,414	1/4	4,023	1/4	1/4	1/4		1/4	
1/2	95,801	1/2	80,408	1/2	65,014	1/2	49,624	1/2	34,487	1/2	19,094	1/2	3,703	1/2	1/2	1/2		1/2	
3/4	95,481	3/4	80,087	3/4	64,693	3/4	49,309	3/4	34,166	3/4	18,773	3/4	3,389	3/4	3/4	3/4		3/4	
2	95,160	2	79,766	2	64,373	2	48,995	2	33,845	2	18,452	2	3,075	2		2		2	
1/4	94,839	1/4	79,446	1/4	64,052	1/4	48,680	1/4	33,525	1/4	18,132	1/4	2,760	1/4	1/4	1/4		1/4	
1/2	94,519	1/2	79,125	1/2	63,731	1/2	48,366	1/2	33,204	1/2	17,811	1/2	2,446	1/2	1/2	1/2		1/2	
3/4	94,198	3/4	78,804	3/4	63,411	3/4	48,051	3/4	32,883	3/4	17,490	3/4	2,175	3/4	3/4	3/4		3/4	
3	93,877	3	78,484	3	63,090	3	47,737	3	32,563	3	17,170	3	1,905	3		3		3	
1/4	93,556	1/4	78,163	1/4	62,769	1/4	47,422	1/4	32,242	1/4	16,849	1/4	1,634	1/4	1/4	1/4		1/4	
1/2	93,236	1/2	77,842	1/2	62,449	1/2	47,108	1/2	31,921	1/2	16,528	1/2	1,364	1/2	1/2	1/2		1/2	
3/4	92,915	3/4	77,521	3/4	62,128	3/4	46,794	3/4	31,601	3/4	16,207	3/4	1,173	3/4	3/4	3/4		3/4	
4	92,594	4	77,201	4	61,807	4	46,480	4	31,280	4	15,887	4	983	4		4		4	
1/4	92,274	1/4	76,880	1/4	61,486	1/4	46,166	1/4	30,959	1/4	15,566	1/4	793	1/4	1/4	1/4		1/4	
1/2	91,953	1/2	76,559	1/2	61,166	1/2	45,851	1/2	30,639	1/2	15,245	1/2	602	1/2	1/2	1/2		1/2	
3/4	91,632	3/4	76,239	3/4	60,845	3/4	45,537	3/4	30,318	3/4	14,925	3/4		3/4	3/4	3/4		3/4	
5	91,312	5	75,918	5	60,524	5	45,223	5	29,997	5	14,604	5		5		5		5	
1/4	90,991	1/4	75,597	1/4	60,204	1/4	44,909	1/4	29,676	1/4	14,283	1/4		1/4	1/4	1/4		1/4	
1/2	90,670	1/2	75,277	1/2	59,883	1/2	44,595	1/2	29,356	1/2	13,963	1/2		1/2	1/2	1/2		1/2	
3/4	90,349	3/4	74,956	3/4	59,562	3/4	44,281	3/4	29,035	3/4	13,642	3/4		3/4	3/4	3/4		3/4	
6	90,029	6	74,635	6	59,242	6	43,967	6	28,714	6	13,321	6		6		6		6	
1/4	89,708	1/4	74,314	1/4	58,921	1/4	43,653	1/4	28,394	1/4	13,001	1/4		1/4	1/4	1/4		1/4	
1/2	89,387	1/2	73,994	1/2	58,600	1/2	43,338	1/2	28,073	1/2	12,680	1/2		1/2	1/2	1/2		1/2	
3/4	89,067	3/4	73,673	3/4	58,279	3/4	43,024	3/4	27,752	3/4	12,359	3/4		3/4	3/4	3/4		3/4	
7	88,746	7	73,352	7	57,959	7	42,710	7	27,432	7	12,039	7		7		7		7	
1/4	88,425	1/4	73,032	1/4	57,638	1/4	42,396	1/4	27,111	1/4	11,718	1/4		1/4	1/4	1/4		1/4	
1/2	88,105	1/2	72,711	1/2	57,317	1/2	42,082	1/2	26,790	1/2	11,397	1/2		1/2	1/2	1/2		1/2	
3/4	87,784	3/4	72,390	3/4	56,997	3/4	41,768	3/4	26,470	3/4	11,076	3/4		3/4	3/4	3/4		3/4	
8	87,463	8	72,070	8	56,676	8	41,454	8	26,149	8	10,756	8		8		8		8	
1/4	87,142	1/4	71,749	1/4	56,355	1/4	41,139	1/4	25,828	1/4	10,435	1/4		1/4	1/4	1/4		1/4	
1/2	86,822	1/2	71,428	1/2	56,035	1/2	40,825	1/2	25,508	1/2	10,114	1/2		1/2	1/2	1/2		1/2	
3/4	86,501	3/4	71,107	3/4	55,714	3/4	40,511	3/4	25,187	3/4	9,794	3/4		3/4	3/4	3/4		3/4	
9	86,180	9	70,787	9	55,393	9	40,197	9	24,866	9	9,473	9		9		9		9	
1/4	85,860	1/4	70,466	1/4	55,072	1/4	39,883	1/4	24,545	1/4	9,152	1/4		1/4	1/4	1/4		1/4	
1/2	85,539	1/2	70,145	1/2	54,752	1/2	39,569	1/2	24,225	1/2	8,832	1/2		1/2	1/2	1/2		1/2	
3/4	85,218	3/4	69,825	3/4	54,431	3/4	39,255	3/4	23,904	3/4	8,511	3/4		3/4	3/4	3/4		3/4	
10	84,898	10	69,504	10	54,110	10	38,940	10	23,583	10	8,190	10		10		10		10	
1/4	84,577	1/4	69,183	1/4	53,790	1/4	38,626	1/4	23,263	1/4	7,870	1/4		1/4	1/4	1/4		1/4	
1/2	84,256	1/2	68,863	1/2	53,469	1/2	38,312	1/2	22,942	1/2	7,549	1/2		1/2	1/2	1/2		1/2	
3/4	83,935	3/4	68,542	3/4	53,148	3/4	37,997	3/4	22,621	3/4	7,228	3/4		3/4	3/4	3/4		3/4	
11	83,615	11	68,221	11	52,828	11	37,682	11	22,301	11	6,907	11		11		11		11	
1/4	83,294	1/4	67,900	1/4	52,507	1/4	37,367	1/4	21,980	1/4	6,587	1/4		1/4	1/4	1/4		1/4	
1/2	82,973	1/2	67,580	1/2	52,186	1/2	37,052	1/2	21,659	1/2	6,266	1/2		1/2	1/2	1/2		1/2	
3/4	82,653	3/4	67,259	3/4	51,866	3/4	36,732	3/4	21,339	3/4	5,946	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "CBC 319"

2 STBD
OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	205,510	0	190,208	0	174,905	0	159,535	0	144,145	0	128,754	0	113,361
1/4		1/4		1/4		1/4	205,191	1/4	189,889	1/4	174,587	1/4	159,214	1/4	143,824	1/4	128,434	1/4	113,040
1/2		1/2		1/2		1/2	204,872	1/2	189,570	1/2	174,268	1/2	158,894	1/2	143,504	1/2	128,113	1/2	112,719
3/4		3/4		3/4		3/4	204,554	3/4	189,251	3/4	173,949	3/4	158,573	3/4	143,183	3/4	127,792	3/4	112,399
1		1		1		1	204,235	1	188,933	1	173,630	1	158,252	1	142,862	1	127,472	1	112,078
1/4		1/4		1/4	218,150	1/4	203,916	1/4	188,614	1/4	173,312	1/4	157,932	1/4	142,542	1/4	127,151	1/4	111,757
1/2		1/2		1/2	217,988	1/2	203,597	1/2	188,295	1/2	172,993	1/2	157,611	1/2	142,221	1/2	126,830	1/2	111,437
3/4		3/4		3/4	217,826	3/4	203,278	3/4	187,976	3/4	172,674	3/4	157,290	3/4	141,901	3/4	126,510	3/4	111,116
2		2		2	217,611	2	202,960	2	187,657	2	172,355	2	156,970	2	141,580	2	126,189	2	110,795
1/4		1/4		1/4	217,396	1/4	202,641	1/4	187,339	1/4	172,036	1/4	156,649	1/4	141,259	1/4	125,868	1/4	110,475
1/2		1/2		1/2	217,181	1/2	202,322	1/2	187,020	1/2	171,717	1/2	156,329	1/2	140,939	1/2	125,547	1/2	110,154
3/4		3/4		3/4	216,966	3/4	202,003	3/4	186,701	3/4	171,398	3/4	156,008	3/4	140,618	3/4	125,227	3/4	109,833
3		3		3	216,698	3	201,684	3	186,382	3	171,077	3	155,687	3	140,298	3	124,906	3	109,512
1/4		1/4		1/4	216,431	1/4	201,366	1/4	186,063	1/4	170,757	1/4	155,367	1/4	139,977	1/4	124,585	1/4	109,192
1/2		1/2		1/2	216,163	1/2	201,047	1/2	185,745	1/2	170,436	1/2	155,046	1/2	139,656	1/2	124,265	1/2	108,871
3/4		3/4		3/4	215,896	3/4	200,728	3/4	185,426	3/4	170,115	3/4	154,725	3/4	139,336	3/4	123,944	3/4	108,550
4		4		4	215,589	4	200,409	4	185,107	4	169,795	4	154,405	4	139,015	4	123,623	4	108,230
1/4		1/4		1/4	215,282	1/4	200,090	1/4	184,788	1/4	169,474	1/4	154,084	1/4	138,694	1/4	123,303	1/4	107,909
1/2		1/2		1/2	214,975	1/2	199,772	1/2	184,469	1/2	169,153	1/2	153,764	1/2	138,374	1/2	122,982	1/2	107,588
3/4		3/4		3/4	214,668	3/4	199,453	3/4	184,151	3/4	168,833	3/4	153,443	3/4	138,053	3/4	122,661	3/4	107,268
5		5		5	214,355	5	199,134	5	183,832	5	168,512	5	153,122	5	137,733	5	122,340	5	106,947
1/4		1/4		1/4	214,042	1/4	198,815	1/4	183,513	1/4	168,192	1/4	152,802	1/4	137,412	1/4	122,020	1/4	106,626
1/2		1/2		1/2	213,729	1/2	198,496	1/2	183,194	1/2	167,871	1/2	152,481	1/2	137,091	1/2	121,699	1/2	106,305
3/4		3/4		3/4	213,417	3/4	198,178	3/4	182,875	3/4	167,550	3/4	152,161	3/4	136,771	3/4	121,378	3/4	105,985
6		6		6	213,103	6	197,859	6	182,557	6	167,230	6	151,840	6	136,450	6	121,058	6	105,664
1/4		1/4		1/4	212,789	1/4	197,540	1/4	182,238	1/4	166,909	1/4	151,519	1/4	136,129	1/4	120,737	1/4	105,343
1/2		1/2		1/2	212,475	1/2	197,221	1/2	181,919	1/2	166,588	1/2	151,199	1/2	135,809	1/2	120,416	1/2	105,023
3/4		3/4		3/4	212,161	3/4	196,902	3/4	181,600	3/4	166,268	3/4	150,878	3/4	135,488	3/4	120,096	3/4	104,702
7		7		7	211,846	7	196,584	7	181,281	7	165,947	7	150,557	7	135,168	7	119,775	7	104,381
1/4		1/4		1/4	211,532	1/4	196,265	1/4	180,963	1/4	165,627	1/4	150,237	1/4	134,847	1/4	119,454	1/4	104,061
1/2		1/2		1/2	211,217	1/2	195,946	1/2	180,644	1/2	165,306	1/2	149,916	1/2	134,526	1/2	119,133	1/2	103,740
3/4		3/4		3/4	210,902	3/4	195,627	3/4	180,325	3/4	164,985	3/4	149,596	3/4	134,206	3/4	118,813	3/4	103,419
8		8		8	210,587	8	195,308	8	180,006	8	164,665	8	149,275	8	133,885	8	118,492	8	103,098
1/4		1/4		1/4	210,272	1/4	194,990	1/4	179,687	1/4	164,344	1/4	148,954	1/4	133,564	1/4	118,171	1/4	102,778
1/2		1/2		1/2	209,957	1/2	194,671	1/2	179,369	1/2	164,024	1/2	148,634	1/2	133,244	1/2	117,851	1/2	102,457
3/4		3/4		3/4	209,642	3/4	194,352	3/4	179,050	3/4	163,703	3/4	148,313	3/4	132,923	3/4	117,530	3/4	102,136
9		9		9	209,326	9	194,033	9	178,731	9	163,382	9	147,992	9	132,603	9	117,209	9	101,816
1/4		1/4		1/4	209,011	1/4	193,714	1/4	178,412	1/4	163,062	1/4	147,672	1/4	132,282	1/4	116,889	1/4	101,495
1/2		1/2		1/2	208,695	1/2	193,396	1/2	178,093	1/2	162,741	1/2	147,351	1/2	131,961	1/2	116,568	1/2	101,174
3/4		3/4		3/4	208,379	3/4	193,077	3/4	177,775	3/4	162,420	3/4	147,031	3/4	131,641	3/4	116,247	3/4	100,854
10		10		10	208,060	10	192,758	10	177,456	10	162,100	10	146,710	10	131,320	10	115,926	10	100,533
1/4		1/4		1/4	207,742	1/4	192,439	1/4	177,137	1/4	161,779	1/4	146,389	1/4	130,999	1/4	115,606	1/4	100,212
1/2		1/2		1/2	207,423	1/2	192,120	1/2	176,818	1/2	161,459	1/2	146,069	1/2	130,679	1/2	115,285	1/2	99,891
3/4		3/4		3/4	207,104	3/4	191,802	3/4	176,499	3/4	161,138	3/4	145,748	3/4	130,358	3/4	114,964	3/4	99,571
11		11		11	206,785	11	191,483	11	176,181	11	160,817	11	145,427	11	130,037	11	114,644	11	99,250
1/4		1/4		1/4	206,466	1/4	191,164	1/4	175,862	1/4	160,497	1/4	145,107	1/4	129,717	1/4	114,323	1/4	98,929
1/2		1/2		1/2	206,148	1/2	190,845	1/2	175,543	1/2	160,176	1/2	144,786	1/2	129,396	1/2	114,002	1/2	98,609
3/4		3/4		3/4	205,829	3/4	190,527	3/4	175,224	3/4	159,855	3/4	144,466	3/4	129,075	3/4	113,682	3/4	98,288

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 T ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "CBC 319"

2 STBD
OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	97,967	0	82,574	0	67,180	0	51,787	0	36,683	0	21,338	0	5,945	0		0		0	
1/4	97,647	1/4	82,253	1/4	66,859	1/4	51,466	1/4	36,370	1/4	21,018	1/4	5,625	1/4	1/4	1/4		1/4	
1/2	97,326	1/2	81,932	1/2	66,539	1/2	51,145	1/2	36,056	1/2	20,697	1/2	5,304	1/2	1/2	1/2		1/2	
3/4	97,005	3/4	81,612	3/4	66,218	3/4	50,824	3/4	35,743	3/4	20,376	3/4	4,984	3/4	3/4	3/4		3/4	
1	96,684	1	81,291	1	65,897	1	50,504	1	35,429	1	20,056	1	4,664	1		1		1	
1/4	96,364	1/4	80,970	1/4	65,577	1/4	50,183	1/4	35,115	1/4	19,735	1/4	4,343	1/4	1/4	1/4		1/4	
1/2	96,043	1/2	80,649	1/2	65,256	1/2	49,863	1/2	34,801	1/2	19,414	1/2	4,023	1/2	1/2	1/2		1/2	
3/4	95,722	3/4	80,329	3/4	64,935	3/4	49,543	3/4	34,487	3/4	19,094	3/4	3,703	3/4	3/4	3/4		3/4	
2	95,402	2	80,008	2	64,614	2	49,224	2	34,166	2	18,773	2	3,389	2		2		2	
1/4	95,081	1/4	79,687	1/4	64,294	1/4	48,905	1/4	33,845	1/4	18,452	1/4	3,075	1/4	1/4	1/4		1/4	
1/2	94,760	1/2	79,367	1/2	63,973	1/2	48,586	1/2	33,525	1/2	18,132	1/2	2,760	1/2	1/2	1/2		1/2	
3/4	94,440	3/4	79,046	3/4	63,652	3/4	48,267	3/4	33,204	3/4	17,811	3/4	2,446	3/4	3/4	3/4		3/4	
3	94,119	3	78,725	3	63,332	3	47,949	3	32,883	3	17,490	3	2,175	3		3		3	
1/4	93,798	1/4	78,405	1/4	63,011	1/4	47,631	1/4	32,563	1/4	17,169	1/4	1,905	1/4	1/4	1/4		1/4	
1/2	93,477	1/2	78,084	1/2	62,690	1/2	47,313	1/2	32,242	1/2	16,849	1/2	1,634	1/2	1/2	1/2		1/2	
3/4	93,157	3/4	77,763	3/4	62,370	3/4	46,995	3/4	31,921	3/4	16,528	3/4	1,364	3/4	3/4	3/4		3/4	
4	92,836	4	77,442	4	62,049	4	46,683	4	31,601	4	16,207	4	1,173	4		4		4	
1/4	92,515	1/4	77,122	1/4	61,728	1/4	46,370	1/4	31,280	1/4	15,887	1/4	983	1/4	1/4	1/4		1/4	
1/2	92,195	1/2	76,801	1/2	61,407	1/2	46,058	1/2	30,959	1/2	15,566	1/2	793	1/2	1/2	1/2		1/2	
3/4	91,874	3/4	76,480	3/4	61,087	3/4	45,745	3/4	30,638	3/4	15,245	3/4	602	3/4	3/4	3/4		3/4	
5	91,553	5	76,160	5	60,766	5	45,433	5	30,318	5	14,925	5		5		5		5	
1/4	91,233	1/4	75,839	1/4	60,445	1/4	45,121	1/4	29,997	1/4	14,604	1/4		1/4	1/4	1/4		1/4	
1/2	90,912	1/2	75,518	1/2	60,125	1/2	44,808	1/2	29,676	1/2	14,283	1/2		1/2	1/2	1/2		1/2	
3/4	90,591	3/4	75,198	3/4	59,804	3/4	44,496	3/4	29,356	3/4	13,963	3/4		3/4	3/4	3/4		3/4	
6	90,270	6	74,877	6	59,483	6	44,183	6	29,035	6	13,642	6		6		6		6	
1/4	89,950	1/4	74,556	1/4	59,163	1/4	43,871	1/4	28,714	1/4	13,321	1/4		1/4	1/4	1/4		1/4	
1/2	89,629	1/2	74,235	1/2	58,842	1/2	43,558	1/2	28,394	1/2	13,000	1/2		1/2	1/2	1/2		1/2	
3/4	89,308	3/4	73,915	3/4	58,521	3/4	43,246	3/4	28,073	3/4	12,680	3/4		3/4	3/4	3/4		3/4	
7	88,988	7	73,594	7	58,200	7	42,933	7	27,752	7	12,359	7		7		7		7	
1/4	88,667	1/4	73,273	1/4	57,880	1/4	42,621	1/4	27,432	1/4	12,038	1/4		1/4	1/4	1/4		1/4	
1/2	88,346	1/2	72,953	1/2	57,559	1/2	42,308	1/2	27,111	1/2	11,718	1/2		1/2	1/2	1/2		1/2	
3/4	88,026	3/4	72,632	3/4	57,238	3/4	41,996	3/4	26,790	3/4	11,397	3/4		3/4	3/4	3/4		3/4	
8	87,705	8	72,311	8	56,918	8	41,683	8	26,469	8	11,076	8		8		8		8	
1/4	87,384	1/4	71,991	1/4	56,597	1/4	41,371	1/4	26,149	1/4	10,756	1/4		1/4	1/4	1/4		1/4	
1/2	87,063	1/2	71,670	1/2	56,276	1/2	41,058	1/2	25,828	1/2	10,435	1/2		1/2	1/2	1/2		1/2	
3/4	86,743	3/4	71,349	3/4	55,956	3/4	40,746	3/4	25,507	3/4	10,114	3/4		3/4	3/4	3/4		3/4	
9	86,422	9	71,028	9	55,635	9	40,433	9	25,187	9	9,794	9		9		9		9	
1/4	86,101	1/4	70,708	1/4	55,314	1/4	40,121	1/4	24,866	1/4	9,473	1/4		1/4	1/4	1/4		1/4	
1/2	85,781	1/2	70,387	1/2	54,993	1/2	39,809	1/2	24,545	1/2	9,152	1/2		1/2	1/2	1/2		1/2	
3/4	85,460	3/4	70,066	3/4	54,673	3/4	39,496	3/4	24,225	3/4	8,831	3/4		3/4	3/4	3/4		3/4	
10	85,139	10	69,746	10	54,352	10	39,184	10	23,904	10	8,511	10		10		10		10	
1/4	84,819	1/4	69,425	1/4	54,031	1/4	38,871	1/4	23,583	1/4	8,190	1/4		1/4	1/4	1/4		1/4	
1/2	84,498	1/2	69,104	1/2	53,711	1/2	38,559	1/2	23,263	1/2	7,869	1/2		1/2	1/2	1/2		1/2	
3/4	84,177	3/4	68,784	3/4	53,390	3/4	38,246	3/4	22,942	3/4	7,549	3/4		3/4	3/4	3/4		3/4	
11	83,856	11	68,463	11	53,069	11	37,934	11	22,621	11	7,228	11		11		11		11	
1/4	83,536	1/4	68,142	1/4	52,749	1/4	37,621	1/4	22,300	1/4	6,907	1/4		1/4	1/4	1/4		1/4	
1/2	83,215	1/2	67,821	1/2	52,428	1/2	37,309	1/2	21,980	1/2	6,587	1/2		1/2	1/2	1/2		1/2	
3/4	82,894	3/4	67,501	3/4	52,107	3/4	36,996	3/4	21,659	3/4	6,266	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

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



BARGE "CBC 319"

3 PORT OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

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	196,245	0	184,283	0	172,320	0	160,302	0	145,010	0	129,425	0	113,839
1/4		1/4		1/4		1/4	195,996	1/4	184,033	1/4	172,071	1/4	160,042	1/4	144,685	1/4	129,100	1/4	113,514
1/2		1/2		1/2		1/2	206,652	1/2	195,747	1/2	183,784	1/2	171,821	1/2	159,782	1/2	144,361	1/2	128,776
3/4		3/4		3/4		3/4	206,562	3/4	195,498	3/4	183,535	3/4	171,572	3/4	159,522	3/4	144,036	3/4	128,451
1		1		1		1	206,471	1	195,248	1	183,286	1	171,323	1	159,263	1	143,711	1	128,126
1/4		1/4		1/4		1/4	206,326	1/4	194,999	1/4	183,036	1/4	171,074	1/4	158,939	1/4	143,387	1/4	127,802
1/2		1/2		1/2		1/2	206,181	1/2	194,750	1/2	182,787	1/2	170,824	1/2	158,615	1/2	143,062	1/2	127,477
3/4		3/4		3/4		3/4	206,037	3/4	194,501	3/4	182,538	3/4	170,575	3/4	158,291	3/4	142,737	3/4	127,152
2		2		2		2	205,892	2	194,252	2	182,289	2	170,325	2	157,967	2	142,413	2	126,827
1/4		1/4		1/4		1/4	205,694	1/4	194,002	1/4	182,040	1/4	170,075	1/4	157,643	1/4	142,088	1/4	126,503
1/2		1/2		1/2		1/2	205,496	1/2	193,753	1/2	181,790	1/2	169,824	1/2	157,319	1/2	141,763	1/2	126,178
3/4		3/4		3/4		3/4	205,298	3/4	193,504	3/4	181,541	3/4	169,574	3/4	156,995	3/4	141,439	3/4	125,853
3		3		3		3	205,100	3	193,255	3	181,292	3	169,323	3	156,671	3	141,114	3	125,529
1/4		1/4		1/4		1/4	204,862	1/4	193,005	1/4	181,043	1/4	169,072	1/4	156,347	1/4	140,789	1/4	125,204
1/2		1/2		1/2		1/2	204,624	1/2	192,756	1/2	180,793	1/2	168,822	1/2	156,023	1/2	140,465	1/2	124,879
3/4		3/4		3/4		3/4	204,386	3/4	192,507	3/4	180,544	3/4	168,571	3/4	155,699	3/4	140,140	3/4	124,554
4		4		4		4	204,148	4	192,258	4	180,295	4	168,321	4	155,375	4	139,815	4	124,230
1/4		1/4		1/4		1/4	203,904	1/4	192,009	1/4	180,046	1/4	168,070	1/4	155,051	1/4	139,491	1/4	123,905
1/2		1/2		1/2		1/2	203,660	1/2	191,759	1/2	179,797	1/2	167,819	1/2	154,727	1/2	139,166	1/2	123,580
3/4		3/4		3/4		3/4	203,416	3/4	191,510	3/4	179,547	3/4	167,569	3/4	154,403	3/4	138,841	3/4	123,256
5		5		5		5	203,172	5	191,261	5	179,298	5	167,318	5	154,079	5	138,517	5	122,931
1/4		1/4		1/4		1/4	202,927	1/4	191,012	1/4	179,049	1/4	167,068	1/4	153,756	1/4	138,192	1/4	122,606
1/2		1/2		1/2		1/2	202,682	1/2	190,762	1/2	178,800	1/2	166,817	1/2	153,432	1/2	137,867	1/2	122,281
3/4		3/4		3/4		3/4	202,437	3/4	190,513	3/4	178,550	3/4	166,566	3/4	153,108	3/4	137,542	3/4	121,957
6		6		6		6	202,192	6	190,264	6	178,301	6	166,316	6	152,784	6	137,218	6	121,632
1/4		1/4		1/4		1/4	201,946	1/4	190,015	1/4	178,052	1/4	166,065	1/4	152,460	1/4	136,893	1/4	121,307
1/2		1/2		1/2		1/2	201,700	1/2	189,766	1/2	177,803	1/2	165,815	1/2	152,136	1/2	136,568	1/2	120,983
3/4		3/4		3/4		3/4	201,454	3/4	189,516	3/4	177,554	3/4	165,564	3/4	151,812	3/4	136,244	3/4	120,658
7		7		7		7	201,209	7	189,267	7	177,304	7	165,314	7	151,488	7	135,919	7	120,333
1/4		1/4		1/4		1/4	200,962	1/4	189,018	1/4	177,055	1/4	165,063	1/4	151,164	1/4	135,594	1/4	120,009
1/2		1/2		1/2		1/2	200,716	1/2	188,769	1/2	176,806	1/2	164,812	1/2	150,840	1/2	135,270	1/2	119,684
3/4		3/4		3/4		3/4	200,470	3/4	188,519	3/4	176,557	3/4	164,562	3/4	150,517	3/4	134,945	3/4	119,359
8		8		8		8	200,223	8	188,270	8	176,307	8	164,311	8	150,193	8	134,620	8	119,034
1/4		1/4		1/4		1/4	199,977	1/4	188,021	1/4	176,058	1/4	164,061	1/4	149,869	1/4	134,296	1/4	118,710
1/2		1/2		1/2		1/2	199,730	1/2	187,772	1/2	175,809	1/2	163,810	1/2	149,545	1/2	133,971	1/2	118,385
3/4		3/4		3/4		3/4	199,483	3/4	187,523	3/4	175,560	3/4	163,559	3/4	149,221	3/4	133,646	3/4	118,060
9		9		9		9	199,236	9	187,273	9	175,311	9	163,309	9	148,897	9	133,322	9	117,736
1/4		1/4		1/4		1/4	198,987	1/4	187,024	1/4	175,061	1/4	163,058	1/4	148,573	1/4	132,997	1/4	117,411
1/2		1/2		1/2		1/2	198,738	1/2	186,775	1/2	174,812	1/2	162,808	1/2	148,249	1/2	132,672	1/2	117,086
3/4		3/4		3/4		3/4	198,488	3/4	186,526	3/4	174,563	3/4	162,557	3/4	147,925	3/4	132,347	3/4	116,761
10		10		10		10	198,239	10	186,276	10	174,314	10	162,306	10	147,602	10	132,023	10	116,437
1/4		1/4		1/4		1/4	197,990	1/4	186,027	1/4	174,064	1/4	162,056	1/4	147,278	1/4	131,698	1/4	116,112
1/2		1/2		1/2		1/2	197,741	1/2	185,778	1/2	173,815	1/2	161,805	1/2	146,954	1/2	131,373	1/2	115,787
3/4		3/4		3/4		3/4	197,491	3/4	185,529	3/4	173,566	3/4	161,555	3/4	146,630	3/4	131,049	3/4	115,463
11		11		11		11	197,242	11	185,279	11	173,317	11	161,304	11	146,306	11	130,724	11	115,138
1/4		1/4		1/4		1/4	196,993	1/4	185,030	1/4	173,068	1/4	161,053	1/4	145,982	1/4	130,399	1/4	114,813
1/2		1/2		1/2		1/2	196,744	1/2	184,781	1/2	172,818	1/2	160,803	1/2	145,658	1/2	130,075	1/2	114,488
3/4		3/4		3/4		3/4	196,495	3/4	184,532	3/4	172,569	3/4	160,552	3/4	145,334	3/4	129,750	3/4	114,164

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 T ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 319"

3 PORT OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

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	98,283	0	82,706	0	67,108	0	51,545	0	36,317	0	20,701	0	5,063	0		0		0	
1/4	97,960	1/4	82,381	1/4	66,783	1/4	51,228	1/4	35,992	1/4	20,375	1/4	4,737	1/4	1/4	1/4		1/4	
1/2	97,636	1/2	82,056	1/2	66,458	1/2	50,911	1/2	35,667	1/2	20,050	1/2	4,412	1/2	1/2	1/2		1/2	
3/4	97,312	3/4	81,731	3/4	66,133	3/4	50,594	3/4	35,342	3/4	19,724	3/4	4,087	3/4	3/4	3/4		3/4	
1	96,988	1	81,406	1	65,808	1	50,277	1	35,017	1	19,398	1	3,762	1		1		1	
1/4	96,664	1/4	81,081	1/4	65,483	1/4	49,960	1/4	34,693	1/4	19,072	1/4	3,442	1/4	1/4	1/4		1/4	
1/2	96,340	1/2	80,756	1/2	65,158	1/2	49,643	1/2	34,368	1/2	18,746	1/2	3,123	1/2	1/2	1/2		1/2	
3/4	96,016	3/4	80,431	3/4	64,833	3/4	49,326	3/4	34,043	3/4	18,421	3/4	2,804	3/4	3/4	3/4		3/4	
2	95,692	2	80,106	2	64,509	2	49,010	2	33,718	2	18,095	2	2,484	2		2		2	
1/4	95,369	1/4	79,781	1/4	64,184	1/4	48,693	1/4	33,393	1/4	17,769	1/4	2,209	1/4	1/4	1/4		1/4	
1/2	95,045	1/2	79,456	1/2	63,859	1/2	48,376	1/2	33,069	1/2	17,443	1/2	1,935	1/2	1/2	1/2		1/2	
3/4	94,721	3/4	79,131	3/4	63,534	3/4	48,059	3/4	32,744	3/4	17,117	3/4	1,660	3/4	3/4	3/4		3/4	
3	94,397	3	78,806	3	63,209	3	47,743	3	32,419	3	16,791	3	1,385	3		3		3	
1/4	94,073	1/4	78,481	1/4	62,884	1/4	47,426	1/4	32,094	1/4	16,466	1/4	1,191	1/4	1/4	1/4		1/4	
1/2	93,749	1/2	78,156	1/2	62,559	1/2	47,110	1/2	31,769	1/2	16,140	1/2	998	1/2	1/2	1/2		1/2	
3/4	93,425	3/4	77,831	3/4	62,234	3/4	46,793	3/4	31,445	3/4	15,814	3/4	804	3/4	3/4	3/4		3/4	
4	93,101	4	77,506	4	61,909	4	46,477	4	31,120	4	15,488	4	611	4		4		4	
1/4	92,777	1/4	77,181	1/4	61,584	1/4	46,161	1/4	30,795	1/4	15,162	1/4		1/4	1/4	1/4		1/4	
1/2	92,453	1/2	76,857	1/2	61,259	1/2	45,844	1/2	30,470	1/2	14,837	1/2		1/2	1/2	1/2		1/2	
3/4	92,129	3/4	76,532	3/4	60,934	3/4	45,528	3/4	30,145	3/4	14,511	3/4		3/4	3/4	3/4		3/4	
5	91,805	5	76,207	5	60,609	5	45,211	5	29,821	5	14,185	5		5		5		5	
1/4	91,480	1/4	75,882	1/4	60,284	1/4	44,895	1/4	29,496	1/4	13,859	1/4		1/4	1/4	1/4		1/4	
1/2	91,156	1/2	75,557	1/2	59,959	1/2	44,579	1/2	29,171	1/2	13,533	1/2		1/2	1/2	1/2		1/2	
3/4	90,831	3/4	75,232	3/4	59,634	3/4	44,262	3/4	28,846	3/4	13,207	3/4		3/4	3/4	3/4		3/4	
6	90,506	6	74,907	6	59,309	6	43,946	6	28,521	6	12,882	6		6		6		6	
1/4	90,181	1/4	74,582	1/4	58,984	1/4	43,630	1/4	28,195	1/4	12,556	1/4		1/4	1/4	1/4		1/4	
1/2	89,856	1/2	74,257	1/2	58,659	1/2	43,313	1/2	27,869	1/2	12,230	1/2		1/2	1/2	1/2		1/2	
3/4	89,531	3/4	73,932	3/4	58,334	3/4	42,997	3/4	27,543	3/4	11,904	3/4		3/4	3/4	3/4		3/4	
7	89,206	7	73,607	7	58,009	7	42,680	7	27,218	7	11,578	7		7		7		7	
1/4	88,881	1/4	73,282	1/4	57,684	1/4	42,364	1/4	26,892	1/4	11,253	1/4		1/4	1/4	1/4		1/4	
1/2	88,556	1/2	72,957	1/2	57,359	1/2	42,048	1/2	26,566	1/2	10,927	1/2		1/2	1/2	1/2		1/2	
3/4	88,231	3/4	72,632	3/4	57,034	3/4	41,731	3/4	26,240	3/4	10,601	3/4		3/4	3/4	3/4		3/4	
8	87,906	8	72,307	8	56,709	8	41,415	8	25,914	8	10,275	8		8		8		8	
1/4	87,581	1/4	71,982	1/4	56,384	1/4	41,099	1/4	25,588	1/4	9,949	1/4		1/4	1/4	1/4		1/4	
1/2	87,256	1/2	71,657	1/2	56,059	1/2	40,782	1/2	25,263	1/2	9,624	1/2		1/2	1/2	1/2		1/2	
3/4	86,931	3/4	71,332	3/4	55,734	3/4	40,466	3/4	24,937	3/4	9,298	3/4		3/4	3/4	3/4		3/4	
9	86,606	9	71,007	9	55,409	9	40,149	9	24,611	9	8,972	9		9		9		9	
1/4	86,281	1/4	70,682	1/4	55,084	1/4	39,833	1/4	24,285	1/4	8,646	1/4		1/4	1/4	1/4		1/4	
1/2	85,956	1/2	70,357	1/2	54,759	1/2	39,517	1/2	23,959	1/2	8,320	1/2		1/2	1/2	1/2		1/2	
3/4	85,631	3/4	70,032	3/4	54,434	3/4	39,200	3/4	23,634	3/4	7,994	3/4		3/4	3/4	3/4		3/4	
10	85,306	10	69,707	10	54,109	10	38,884	10	23,308	10	7,669	10		10		10		10	
1/4	84,981	1/4	69,382	1/4	53,785	1/4	38,567	1/4	22,982	1/4	7,343	1/4		1/4	1/4	1/4		1/4	
1/2	84,656	1/2	69,057	1/2	53,461	1/2	38,250	1/2	22,656	1/2	7,017	1/2		1/2	1/2	1/2		1/2	
3/4	84,331	3/4	68,732	3/4	53,137	3/4	37,933	3/4	22,330	3/4	6,691	3/4		3/4	3/4	3/4		3/4	
11	84,006	11	68,407	11	52,813	11	37,616	11	22,004	11	6,365	11		11		11		11	
1/4	83,681	1/4	68,082	1/4	52,496	1/4	37,291	1/4	21,679	1/4	6,040	1/4		1/4	1/4	1/4		1/4	
1/2	83,356	1/2	67,758	1/2	52,179	1/2	36,966	1/2	21,353	1/2	5,714	1/2		1/2	1/2	1/2		1/2	
3/4	83,031	3/4	67,433	3/4	51,862	3/4	36,641	3/4	21,027	3/4	5,388	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

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



BARGE "CBC 319"

3 STBD OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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		0	196,418	0	184,455	0	172,492	0	160,477	0	145,332	0	129,749	0	114,162
1/4		1/4		1/4		1/4	196,169	1/4	184,206	1/4	172,243	1/4	160,226	1/4	145,008	1/4	129,424	1/4	113,838
1/2		1/2		1/2		1/2	195,919	1/2	183,957	1/2	171,994	1/2	159,976	1/2	144,684	1/2	129,099	1/2	113,513
3/4		3/4		3/4		3/4	195,670	3/4	183,707	3/4	171,745	3/4	159,716	3/4	144,359	3/4	128,774	3/4	113,188
1		1		1	206,326	1	195,421	1	183,458	1	171,495	1	159,456	1	144,035	1	128,450	1	112,864
1/4		1/4		1/4	206,236	1/4	195,172	1/4	183,209	1/4	171,246	1/4	159,196	1/4	143,710	1/4	128,125	1/4	112,539
1/2		1/2		1/2	206,145	1/2	194,922	1/2	182,960	1/2	170,997	1/2	158,937	1/2	143,385	1/2	127,800	1/2	112,214
3/4		3/4		3/4	206,000	3/4	194,673	3/4	182,710	3/4	170,748	3/4	158,613	3/4	143,061	3/4	127,476	3/4	111,890
2		2		2	205,855	2	194,424	2	182,461	2	170,498	2	158,289	2	142,736	2	127,151	2	111,565
1/4		1/4		1/4	205,711	1/4	194,175	1/4	182,212	1/4	170,249	1/4	157,965	1/4	142,411	1/4	126,826	1/4	111,241
1/2		1/2		1/2	205,566	1/2	193,926	1/2	181,963	1/2	169,999	1/2	157,641	1/2	142,087	1/2	126,501	1/2	110,917
3/4		3/4		3/4	205,368	3/4	193,676	3/4	181,714	3/4	169,749	3/4	157,317	3/4	141,762	3/4	126,177	3/4	110,592
3		3		3	205,170	3	193,427	3	181,464	3	169,498	3	156,993	3	141,437	3	125,852	3	110,268
1/4		1/4		1/4	204,972	1/4	193,178	1/4	181,215	1/4	169,248	1/4	156,669	1/4	141,113	1/4	125,527	1/4	109,943
1/2		1/2		1/2	204,774	1/2	192,929	1/2	180,966	1/2	168,997	1/2	156,345	1/2	140,788	1/2	125,203	1/2	109,619
3/4		3/4		3/4	204,536	3/4	192,679	3/4	180,717	3/4	168,746	3/4	156,021	3/4	140,463	3/4	124,878	3/4	109,294
4		4		4	204,298	4	192,430	4	180,467	4	168,496	4	155,697	4	140,139	4	124,553	4	108,970
1/4		1/4		1/4	204,060	1/4	192,181	1/4	180,218	1/4	168,245	1/4	155,373	1/4	139,814	1/4	124,228	1/4	108,645
1/2		1/2		1/2	203,822	1/2	191,932	1/2	179,969	1/2	167,995	1/2	155,049	1/2	139,489	1/2	123,904	1/2	108,321
3/4		3/4		3/4	203,578	3/4	191,683	3/4	179,720	3/4	167,744	3/4	154,725	3/4	139,165	3/4	123,579	3/4	107,997
5		5		5	203,334	5	191,433	5	179,471	5	167,493	5	154,401	5	138,840	5	123,254	5	107,672
1/4		1/4		1/4	203,090	1/4	191,184	1/4	179,221	1/4	167,243	1/4	154,077	1/4	138,515	1/4	122,930	1/4	107,348
1/2		1/2		1/2	202,846	1/2	190,935	1/2	178,972	1/2	166,992	1/2	153,753	1/2	138,191	1/2	122,605	1/2	107,024
3/4		3/4		3/4	202,601	3/4	190,686	3/4	178,723	3/4	166,742	3/4	153,430	3/4	137,866	3/4	122,280	3/4	106,700
6		6		6	202,356	6	190,436	6	178,474	6	166,491	6	153,106	6	137,541	6	121,955	6	106,376
1/4		1/4		1/4	202,111	1/4	190,187	1/4	178,224	1/4	166,240	1/4	152,782	1/4	137,216	1/4	121,631	1/4	106,053
1/2		1/2		1/2	201,866	1/2	189,938	1/2	177,975	1/2	165,990	1/2	152,458	1/2	136,892	1/2	121,306	1/2	105,729
3/4		3/4		3/4	201,620	3/4	189,689	3/4	177,726	3/4	165,739	3/4	152,134	3/4	136,567	3/4	120,981	3/4	105,406
7		7		7	201,374	7	189,440	7	177,477	7	165,489	7	151,810	7	136,242	7	120,657	7	105,082
1/4		1/4		1/4	201,128	1/4	189,190	1/4	177,228	1/4	165,238	1/4	151,486	1/4	135,918	1/4	120,332	1/4	104,758
1/2		1/2		1/2	200,883	1/2	188,941	1/2	176,978	1/2	164,988	1/2	151,162	1/2	135,593	1/2	120,007	1/2	104,435
3/4		3/4		3/4	200,636	3/4	188,692	3/4	176,729	3/4	164,737	3/4	150,838	3/4	135,268	3/4	119,683	3/4	104,111
8		8		8	200,390	8	188,443	8	176,480	8	164,486	8	150,514	8	134,944	8	119,358	8	103,787
1/4		1/4		1/4	200,144	1/4	188,193	1/4	176,231	1/4	164,236	1/4	150,191	1/4	134,619	1/4	119,033	1/4	103,463
1/2		1/2		1/2	199,897	1/2	187,944	1/2	175,981	1/2	163,985	1/2	149,867	1/2	134,294	1/2	118,708	1/2	103,139
3/4		3/4		3/4	199,651	3/4	187,695	3/4	175,732	3/4	163,735	3/4	149,543	3/4	133,970	3/4	118,384	3/4	102,816
9		9		9	199,404	9	187,446	9	175,483	9	163,484	9	149,219	9	133,645	9	118,059	9	102,492
1/4		1/4		1/4	199,157	1/4	187,197	1/4	175,234	1/4	163,233	1/4	148,895	1/4	133,320	1/4	117,734	1/4	102,168
1/2		1/2		1/2	198,910	1/2	186,947	1/2	174,985	1/2	162,983	1/2	148,571	1/2	132,996	1/2	117,410	1/2	101,844
3/4		3/4		3/4	198,661	3/4	186,698	3/4	174,735	3/4	162,732	3/4	148,247	3/4	132,671	3/4	117,085	3/4	101,520
10		10		10	198,412	10	186,449	10	174,486	10	162,482	10	147,923	10	132,346	10	116,760	10	101,196
1/4		1/4		1/4	198,162	1/4	186,200	1/4	174,237	1/4	162,231	1/4	147,599	1/4	132,021	1/4	116,435	1/4	100,872
1/2		1/2		1/2	197,913	1/2	185,950	1/2	173,988	1/2	161,980	1/2	147,276	1/2	131,697	1/2	116,111	1/2	100,548
3/4		3/4		3/4	197,664	3/4	185,701	3/4	173,738	3/4	161,730	3/4	146,952	3/4	131,372	3/4	115,786	3/4	100,225
11		11		11	197,415	11	185,452	11	173,489	11	161,479	11	146,628	11	131,047	11	115,461	11	99,901
1/4		1/4		1/4	197,165	1/4	185,203	1/4	173,240	1/4	161,229	1/4	146,304	1/4	130,723	1/4	115,137	1/4	99,577
1/2		1/2		1/2	196,916	1/2	184,953	1/2	172,991	1/2	160,978	1/2	145,980	1/2	130,398	1/2	114,812	1/2	99,253
3/4		3/4		3/4	196,667	3/4	184,704	3/4	172,742	3/4	160,727	3/4	145,656	3/4	130,073	3/4	114,487	3/4	98,929

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 T ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 319"

3 STBD
OUTAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04 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	98,605	0	83,030	0	67,432	0	51,868	0	36,965	0	21,353	0	5,714	0		0		0	
1/4	98,281	1/4	82,705	1/4	67,107	1/4	51,558	1/4	36,641	1/4	21,027	1/4	5,388	1/4	1/4	1/4		1/4	
1/2	97,957	1/2	82,380	1/2	66,782	1/2	51,247	1/2	36,317	1/2	20,701	1/2	5,062	1/2	1/2	1/2	1/2	1/2	1/2
3/4	97,634	3/4	82,055	3/4	66,457	3/4	50,936	3/4	35,992	3/4	20,375	3/4	4,737	3/4	3/4	3/4	3/4	3/4	3/4
1	97,310	1	81,730	1	66,132	1	50,625	1	35,667	1	20,050	1	4,412	1		1		1	
1/4	96,986	1/4	81,405	1/4	65,807	1/4	50,314	1/4	35,342	1/4	19,724	1/4	4,087	1/4	1/4	1/4	1/4	1/4	1/4
1/2	96,662	1/2	81,080	1/2	65,482	1/2	50,003	1/2	35,017	1/2	19,398	1/2	3,762	1/2	1/2	1/2	1/2	1/2	1/2
3/4	96,338	3/4	80,755	3/4	65,157	3/4	49,692	3/4	34,693	3/4	19,072	3/4	3,442	3/4	3/4	3/4	3/4	3/4	3/4
2	96,014	2	80,430	2	64,832	2	49,382	2	34,368	2	18,746	2	3,123	2		2		2	
1/4	95,690	1/4	80,105	1/4	64,507	1/4	49,071	1/4	34,043	1/4	18,420	1/4	2,804	1/4	1/4	1/4	1/4	1/4	1/4
1/2	95,366	1/2	79,780	1/2	64,183	1/2	48,761	1/2	33,718	1/2	18,095	1/2	2,484	1/2	1/2	1/2	1/2	1/2	1/2
3/4	95,043	3/4	79,455	3/4	63,858	3/4	48,451	3/4	33,393	3/4	17,769	3/4	2,209	3/4	3/4	3/4	3/4	3/4	3/4
3	94,719	3	79,130	3	63,533	3	48,141	3	33,069	3	17,443	3	1,934	3		3		3	
1/4	94,395	1/4	78,805	1/4	63,208	1/4	47,831	1/4	32,744	1/4	17,117	1/4	1,660	1/4	1/4	1/4	1/4	1/4	1/4
1/2	94,071	1/2	78,480	1/2	62,883	1/2	47,522	1/2	32,419	1/2	16,791	1/2	1,385	1/2	1/2	1/2	1/2	1/2	1/2
3/4	93,747	3/4	78,155	3/4	62,558	3/4	47,212	3/4	32,094	3/4	16,466	3/4	1,191	3/4	3/4	3/4	3/4	3/4	3/4
4	93,423	4	77,830	4	62,233	4	46,903	4	31,769	4	16,140	4	998	4		4		4	
1/4	93,099	1/4	77,505	1/4	61,908	1/4	46,593	1/4	31,444	1/4	15,814	1/4	804	1/4	1/4	1/4	1/4	1/4	1/4
1/2	92,775	1/2	77,180	1/2	61,583	1/2	46,284	1/2	31,120	1/2	15,488	1/2	611	1/2	1/2	1/2	1/2	1/2	1/2
3/4	92,451	3/4	76,855	3/4	61,258	3/4	45,974	3/4	30,795	3/4	15,162	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	92,127	5	76,531	5	60,933	5	45,665	5	30,470	5	14,837	5		5		5		5	
1/4	91,803	1/4	76,206	1/4	60,608	1/4	45,355	1/4	30,145	1/4	14,511	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	91,479	1/2	75,881	1/2	60,283	1/2	45,046	1/2	29,820	1/2	14,185	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	91,154	3/4	75,556	3/4	59,958	3/4	44,736	3/4	29,496	3/4	13,859	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	90,830	6	75,231	6	59,633	6	44,427	6	29,171	6	13,533	6		6		6		6	
1/4	90,505	1/4	74,906	1/4	59,308	1/4	44,117	1/4	28,846	1/4	13,207	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	90,180	1/2	74,581	1/2	58,983	1/2	43,808	1/2	28,521	1/2	12,882	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	89,855	3/4	74,256	3/4	58,658	3/4	43,498	3/4	28,195	3/4	12,556	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	89,530	7	73,931	7	58,333	7	43,189	7	27,869	7	12,230	7		7		7		7	
1/4	89,205	1/4	73,606	1/4	58,008	1/4	42,880	1/4	27,543	1/4	11,904	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	88,880	1/2	73,281	1/2	57,683	1/2	42,570	1/2	27,217	1/2	11,578	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,555	3/4	72,956	3/4	57,358	3/4	42,261	3/4	26,892	3/4	11,253	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	88,230	8	72,631	8	57,033	8	41,951	8	26,566	8	10,927	8		8		8		8	
1/4	87,905	1/4	72,306	1/4	56,708	1/4	41,642	1/4	26,240	1/4	10,601	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,580	1/2	71,981	1/2	56,383	1/2	41,332	1/2	25,914	1/2	10,275	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	87,255	3/4	71,656	3/4	56,058	3/4	41,023	3/4	25,588	3/4	9,949	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	86,930	9	71,331	9	55,733	9	40,713	9	25,263	9	9,623	9		9		9		9	
1/4	86,605	1/4	71,006	1/4	55,408	1/4	40,404	1/4	24,937	1/4	9,298	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,280	1/2	70,681	1/2	55,083	1/2	40,094	1/2	24,611	1/2	8,972	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,955	3/4	70,356	3/4	54,758	3/4	39,785	3/4	24,285	3/4	8,646	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	85,630	10	70,031	10	54,433	10	39,476	10	23,959	10	8,320	10		10		10		10	
1/4	85,305	1/4	69,706	1/4	54,108	1/4	39,166	1/4	23,634	1/4	7,994	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,980	1/2	69,381	1/2	53,783	1/2	38,857	1/2	23,308	1/2	7,669	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,655	3/4	69,056	3/4	53,460	3/4	38,546	3/4	22,982	3/4	7,343	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	84,330	11	68,731	11	53,137	11	38,235	11	22,656	11	7,017	11		11		11		11	
1/4	84,005	1/4	68,406	1/4	52,814	1/4	37,924	1/4	22,330	1/4	6,691	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,680	1/2	68,081	1/2	52,490	1/2	37,613	1/2	22,004	1/2	6,365	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,355	3/4	67,756	3/4	52,179	3/4	37,289	3/4	21,679	3/4	6,040	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/19/2013 SW
CALCULATED: 12/20/2013 CL
PRINTED: 12/23/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2013

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