



BARGE "CBC 1417"

INNAGE TRIM TABLE

| | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | 00-3/8 | - 00-3/8 | 00-3/4 | - 00-3/4 | 01-1/8 | - 01-1/8 | 01-1/2 | - 01-1/2 | 01-7/8 | - 01-7/8 | 02-1/4 | - 02-1/4 |
| 2 CENTER | - 00-1/8 | 00-1/8 | - 00-3/8 | 00-3/8 | - 00-1/2 | 00-1/2 | - 00-3/4 | 00-3/4 | - 00-7/8 | 00-7/8 | - 01-1/8 | 01-1/8 |
| 3 CENTER | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 | 00-1/4 | - 00-1/4 | 00-1/4 | - 00-1/4 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 176'-06"

November 4, 2019

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1417"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 39 | 0 | 8,694 | 0 | 20,291 | 0 | 31,705 | 0 | 43,159 | 0 | 54,727 | 0 | 66,296 | 0 | 77,842 | 0 | 89,389 | 0 | 100,962 |
| 1/4 | 59 | 1/4 | 8,936 | 1/4 | 20,532 | 1/4 | 31,938 | 1/4 | 43,400 | 1/4 | 54,968 | 1/4 | 66,537 | 1/4 | 78,081 | 1/4 | 89,630 | 1/4 | 101,203 |
| 1/2 | 80 | 1/2 | 9,177 | 1/2 | 20,774 | 1/2 | 32,172 | 1/2 | 43,641 | 1/2 | 55,210 | 1/2 | 66,778 | 1/2 | 78,321 | 1/2 | 89,871 | 1/2 | 101,445 |
| 3/4 | 100 | 3/4 | 9,419 | 3/4 | 21,016 | 3/4 | 32,406 | 3/4 | 43,882 | 3/4 | 55,451 | 3/4 | 67,019 | 3/4 | 78,561 | 3/4 | 90,112 | 3/4 | 101,686 |
| 1 | 120 | 1 | 9,661 | 1 | 21,257 | 1 | 32,640 | 1 | 44,123 | 1 | 55,692 | 1 | 67,260 | 1 | 78,800 | 1 | 90,354 | 1 | 101,927 |
| 1/4 | 180 | 1/4 | 9,902 | 1/4 | 21,499 | 1/4 | 32,874 | 1/4 | 44,364 | 1/4 | 55,933 | 1/4 | 67,501 | 1/4 | 79,040 | 1/4 | 90,595 | 1/4 | 102,168 |
| 1/2 | 241 | 1/2 | 10,144 | 1/2 | 21,740 | 1/2 | 33,108 | 1/2 | 44,605 | 1/2 | 56,174 | 1/2 | 67,742 | 1/2 | 79,280 | 1/2 | 90,836 | 1/2 | 102,409 |
| 3/4 | 301 | 3/4 | 10,385 | 3/4 | 21,982 | 3/4 | 33,342 | 3/4 | 44,846 | 3/4 | 56,415 | 3/4 | 67,983 | 3/4 | 79,519 | 3/4 | 91,077 | 3/4 | 102,650 |
| 2 | 361 | 2 | 10,627 | 2 | 22,224 | 2 | 33,575 | 2 | 45,087 | 2 | 56,656 | 2 | 68,224 | 2 | 79,759 | 2 | 91,318 | 2 | 102,891 |
| 1/4 | 462 | 1/4 | 10,869 | 1/4 | 22,465 | 1/4 | 33,809 | 1/4 | 45,328 | 1/4 | 56,897 | 1/4 | 68,465 | 1/4 | 79,999 | 1/4 | 91,559 | 1/4 | 103,132 |
| 1/2 | 563 | 1/2 | 11,110 | 1/2 | 22,707 | 1/2 | 34,043 | 1/2 | 45,569 | 1/2 | 57,138 | 1/2 | 68,706 | 1/2 | 80,238 | 1/2 | 91,800 | 1/2 | 103,373 |
| 3/4 | 663 | 3/4 | 11,352 | 3/4 | 22,948 | 3/4 | 34,277 | 3/4 | 45,810 | 3/4 | 57,379 | 3/4 | 68,947 | 3/4 | 80,478 | 3/4 | 92,041 | 3/4 | 103,615 |
| 3 | 764 | 3 | 11,593 | 3 | 23,190 | 3 | 34,511 | 3 | 46,051 | 3 | 57,620 | 3 | 69,188 | 3 | 80,718 | 3 | 92,282 | 3 | 103,856 |
| 1/4 | 905 | 1/4 | 11,835 | 1/4 | 23,432 | 1/4 | 34,745 | 1/4 | 46,292 | 1/4 | 57,861 | 1/4 | 69,429 | 1/4 | 80,957 | 1/4 | 92,524 | 1/4 | 104,097 |
| 1/2 | 1,046 | 1/2 | 12,077 | 1/2 | 23,673 | 1/2 | 34,979 | 1/2 | 46,533 | 1/2 | 58,102 | 1/2 | 69,670 | 1/2 | 81,197 | 1/2 | 92,765 | 1/2 | 104,338 |
| 3/4 | 1,187 | 3/4 | 12,318 | 3/4 | 23,915 | 3/4 | 35,212 | 3/4 | 46,774 | 3/4 | 58,343 | 3/4 | 69,911 | 3/4 | 81,437 | 3/4 | 93,006 | 3/4 | 104,579 |
| 4 | 1,328 | 4 | 12,560 | 4 | 24,156 | 4 | 35,446 | 4 | 47,015 | 4 | 58,584 | 4 | 70,152 | 4 | 81,676 | 4 | 93,247 | 4 | 104,820 |
| 1/4 | 1,509 | 1/4 | 12,801 | 1/4 | 24,398 | 1/4 | 35,687 | 1/4 | 47,256 | 1/4 | 58,825 | 1/4 | 70,393 | 1/4 | 81,917 | 1/4 | 93,488 | 1/4 | 105,061 |
| 1/2 | 1,690 | 1/2 | 13,043 | 1/2 | 24,640 | 1/2 | 35,928 | 1/2 | 47,497 | 1/2 | 59,066 | 1/2 | 70,634 | 1/2 | 82,157 | 1/2 | 93,729 | 1/2 | 105,302 |
| 3/4 | 1,871 | 3/4 | 13,284 | 3/4 | 24,881 | 3/4 | 36,169 | 3/4 | 47,738 | 3/4 | 59,307 | 3/4 | 70,875 | 3/4 | 82,397 | 3/4 | 93,970 | 3/4 | 105,543 |
| 5 | 2,052 | 5 | 13,526 | 5 | 25,123 | 5 | 36,410 | 5 | 47,979 | 5 | 59,548 | 5 | 71,116 | 5 | 82,638 | 5 | 94,211 | 5 | 105,784 |
| 1/4 | 2,273 | 1/4 | 13,768 | 1/4 | 25,364 | 1/4 | 36,651 | 1/4 | 48,220 | 1/4 | 59,789 | 1/4 | 71,358 | 1/4 | 82,879 | 1/4 | 94,452 | 1/4 | 106,026 |
| 1/2 | 2,494 | 1/2 | 14,009 | 1/2 | 25,606 | 1/2 | 36,892 | 1/2 | 48,461 | 1/2 | 60,030 | 1/2 | 71,599 | 1/2 | 83,120 | 1/2 | 94,694 | 1/2 | 106,267 |
| 3/4 | 2,715 | 3/4 | 14,251 | 3/4 | 25,848 | 3/4 | 37,133 | 3/4 | 48,702 | 3/4 | 60,271 | 3/4 | 71,840 | 3/4 | 83,361 | 3/4 | 94,935 | 3/4 | 106,508 |
| 6 | 2,935 | 6 | 14,492 | 6 | 26,089 | 6 | 37,374 | 6 | 48,943 | 6 | 60,512 | 6 | 72,081 | 6 | 83,602 | 6 | 95,176 | 6 | 106,749 |
| 1/4 | 3,172 | 1/4 | 14,734 | 1/4 | 26,323 | 1/4 | 37,615 | 1/4 | 49,184 | 1/4 | 60,753 | 1/4 | 72,321 | 1/4 | 83,843 | 1/4 | 95,417 | 1/4 | 106,990 |
| 1/2 | 3,409 | 1/2 | 14,976 | 1/2 | 26,558 | 1/2 | 37,856 | 1/2 | 49,425 | 1/2 | 60,994 | 1/2 | 72,561 | 1/2 | 84,085 | 1/2 | 95,658 | 1/2 | 107,231 |
| 3/4 | 3,646 | 3/4 | 15,217 | 3/4 | 26,792 | 3/4 | 38,097 | 3/4 | 49,666 | 3/4 | 61,235 | 3/4 | 72,802 | 3/4 | 84,326 | 3/4 | 95,899 | 3/4 | 107,472 |
| 7 | 3,883 | 7 | 15,459 | 7 | 27,026 | 7 | 38,338 | 7 | 49,907 | 7 | 61,476 | 7 | 73,042 | 7 | 84,567 | 7 | 96,140 | 7 | 107,713 |
| 1/4 | 4,122 | 1/4 | 15,700 | 1/4 | 27,260 | 1/4 | 38,579 | 1/4 | 50,148 | 1/4 | 61,717 | 1/4 | 73,283 | 1/4 | 84,808 | 1/4 | 96,381 | 1/4 | 107,954 |
| 1/2 | 4,360 | 1/2 | 15,942 | 1/2 | 27,495 | 1/2 | 38,820 | 1/2 | 50,389 | 1/2 | 61,958 | 1/2 | 73,523 | 1/2 | 85,049 | 1/2 | 96,622 | 1/2 | 108,196 |
| 3/4 | 4,599 | 3/4 | 16,184 | 3/4 | 27,729 | 3/4 | 39,062 | 3/4 | 50,630 | 3/4 | 62,199 | 3/4 | 73,764 | 3/4 | 85,290 | 3/4 | 96,863 | 3/4 | 108,437 |
| 8 | 4,838 | 8 | 16,425 | 8 | 27,963 | 8 | 39,303 | 8 | 50,871 | 8 | 62,440 | 8 | 74,004 | 8 | 85,531 | 8 | 97,105 | 8 | 108,678 |
| 1/4 | 5,078 | 1/4 | 16,667 | 1/4 | 28,197 | 1/4 | 39,544 | 1/4 | 51,112 | 1/4 | 62,681 | 1/4 | 74,244 | 1/4 | 85,772 | 1/4 | 97,346 | 1/4 | 108,919 |
| 1/2 | 5,318 | 1/2 | 16,908 | 1/2 | 28,431 | 1/2 | 39,785 | 1/2 | 51,353 | 1/2 | 62,922 | 1/2 | 74,485 | 1/2 | 86,013 | 1/2 | 97,587 | 1/2 | 109,160 |
| 3/4 | 5,559 | 3/4 | 17,150 | 3/4 | 28,665 | 3/4 | 40,026 | 3/4 | 51,594 | 3/4 | 63,163 | 3/4 | 74,725 | 3/4 | 86,255 | 3/4 | 97,828 | 3/4 | 109,401 |
| 9 | 5,799 | 9 | 17,392 | 9 | 28,898 | 9 | 40,267 | 9 | 51,835 | 9 | 63,404 | 9 | 74,966 | 9 | 86,496 | 9 | 98,069 | 9 | 109,642 |
| 1/4 | 6,040 | 1/4 | 17,633 | 1/4 | 29,132 | 1/4 | 40,508 | 1/4 | 52,076 | 1/4 | 63,645 | 1/4 | 75,205 | 1/4 | 86,737 | 1/4 | 98,310 | 1/4 | 109,883 |
| 1/2 | 6,281 | 1/2 | 17,875 | 1/2 | 29,366 | 1/2 | 40,749 | 1/2 | 52,317 | 1/2 | 63,886 | 1/2 | 75,445 | 1/2 | 86,978 | 1/2 | 98,551 | 1/2 | 110,124 |
| 3/4 | 6,521 | 3/4 | 18,116 | 3/4 | 29,600 | 3/4 | 40,990 | 3/4 | 52,558 | 3/4 | 64,127 | 3/4 | 75,685 | 3/4 | 87,219 | 3/4 | 98,792 | 3/4 | 110,366 |
| 10 | 6,762 | 10 | 18,358 | 10 | 29,834 | 10 | 41,231 | 10 | 52,799 | 10 | 64,368 | 10 | 75,924 | 10 | 87,460 | 10 | 99,033 | 10 | 110,607 |
| 1/4 | 7,004 | 1/4 | 18,600 | 1/4 | 30,068 | 1/4 | 41,472 | 1/4 | 53,040 | 1/4 | 64,609 | 1/4 | 76,164 | 1/4 | 87,701 | 1/4 | 99,275 | 1/4 | 110,848 |
| 1/2 | 7,245 | 1/2 | 18,841 | 1/2 | 30,302 | 1/2 | 41,713 | 1/2 | 53,281 | 1/2 | 64,850 | 1/2 | 76,404 | 1/2 | 87,942 | 1/2 | 99,516 | 1/2 | 111,089 |
| 3/4 | 7,486 | 3/4 | 19,083 | 3/4 | 30,535 | 3/4 | 41,954 | 3/4 | 53,522 | 3/4 | 65,091 | 3/4 | 76,643 | 3/4 | 88,184 | 3/4 | 99,757 | 3/4 | 111,330 |
| 11 | 7,728 | 11 | 19,324 | 11 | 30,769 | 11 | 42,195 | 11 | 53,763 | 11 | 65,332 | 11 | 76,883 | 11 | 88,425 | 11 | 99,998 | 11 | 111,571 |
| 1/4 | 7,969 | 1/4 | 19,566 | 1/4 | 31,003 | 1/4 | 42,436 | 1/4 | 54,004 | 1/4 | 65,573 | 1/4 | 77,123 | 1/4 | 88,666 | 1/4 | 100,239 | 1/4 | 111,812 |
| 1/2 | 8,211 | 1/2 | 19,808 | 1/2 | 31,237 | 1/2 | 42,677 | 1/2 | 54,245 | 1/2 | 65,814 | 1/2 | 77,362 | 1/2 | 88,907 | 1/2 | 100,480 | 1/2 | 112,053 |
| 3/4 | 8,453 | 3/4 | 20,049 | 3/4 | 31,471 | 3/4 | 42,918 | 3/4 | 54,486 | 3/4 | 66,055 | 3/4 | 77,602 | 3/4 | 89,148 | 3/4 | 100,721 | 3/4 | 112,294 |

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 ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "CBC 1417"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 112,536 | 0 | 122,060 | 0 | 130,171 | 0 | 138,282 | 0 | 146,393 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 112,776 | 1/4 | 122,229 | 1/4 | 130,340 | 1/4 | 138,451 | 1/4 | 146,562 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 113,017 | 1/2 | 122,398 | 1/2 | 130,509 | 1/2 | 138,620 | 1/2 | 146,731 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 113,257 | 3/4 | 122,567 | 3/4 | 130,678 | 3/4 | 138,789 | 3/4 | 146,900 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 113,498 | 1 | 122,736 | 1 | 130,847 | 1 | 138,958 | 1 | 147,069 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 113,738 | 1/4 | 122,905 | 1/4 | 131,016 | 1/4 | 139,127 | 1/4 | 147,238 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 113,979 | 1/2 | 123,074 | 1/2 | 131,185 | 1/2 | 139,296 | 1/2 | 147,407 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 114,219 | 3/4 | 123,243 | 3/4 | 131,354 | 3/4 | 139,465 | 3/4 | 147,576 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 114,460 | 2 | 123,412 | 2 | 131,523 | 2 | 139,634 | 2 | 147,745 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 114,700 | 1/4 | 123,581 | 1/4 | 131,692 | 1/4 | 139,803 | 1/4 | 147,914 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 114,941 | 1/2 | 123,750 | 1/2 | 131,861 | 1/2 | 139,972 | 1/2 | 148,083 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 115,182 | 3/4 | 123,919 | 3/4 | 132,030 | 3/4 | 140,141 | 3/4 | 148,252 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 115,422 | 3 | 124,088 | 3 | 132,199 | 3 | 140,310 | 3 | 148,421 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 115,663 | 1/4 | 124,257 | 1/4 | 132,368 | 1/4 | 140,479 | 1/4 | 148,642 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 115,903 | 1/2 | 124,426 | 1/2 | 132,537 | 1/2 | 140,648 | 1/2 | 148,864 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 116,144 | 3/4 | 124,595 | 3/4 | 132,706 | 3/4 | 140,817 | 3/4 | 149,085 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 116,384 | 4 | 124,764 | 4 | 132,875 | 4 | 140,986 | 4 | 149,307 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 116,625 | 1/4 | 124,933 | 1/4 | 133,044 | 1/4 | 141,155 | 1/4 | 149,488 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 116,865 | 1/2 | 125,102 | 1/2 | 133,213 | 1/2 | 141,324 | 1/2 | 149,669 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 117,106 | 3/4 | 125,271 | 3/4 | 133,382 | 3/4 | 141,493 | 3/4 | 149,850 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 117,347 | 5 | 125,440 | 5 | 133,551 | 5 | 141,662 | 5 | 150,032 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 117,514 | 1/4 | 125,609 | 1/4 | 133,720 | 1/4 | 141,831 | 1/4 | 150,173 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 117,682 | 1/2 | 125,778 | 1/2 | 133,889 | 1/2 | 142,000 | 1/2 | 150,313 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 117,850 | 3/4 | 125,947 | 3/4 | 134,058 | 3/4 | 142,169 | 3/4 | 150,454 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 118,018 | 6 | 126,116 | 6 | 134,227 | 6 | 142,338 | 6 | 150,595 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 118,187 | 1/4 | 126,285 | 1/4 | 134,396 | 1/4 | 142,507 | 1/4 | 150,696 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 118,355 | 1/2 | 126,454 | 1/2 | 134,565 | 1/2 | 142,676 | 1/2 | 150,797 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 118,523 | 3/4 | 126,623 | 3/4 | 134,734 | 3/4 | 142,845 | 3/4 | 150,897 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 118,692 | 7 | 126,792 | 7 | 134,903 | 7 | 143,014 | 7 | 150,998 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 118,860 | 1/4 | 126,961 | 1/4 | 135,072 | 1/4 | 143,183 | 1/4 | 151,058 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 119,029 | 1/2 | 127,129 | 1/2 | 135,241 | 1/2 | 143,352 | 1/2 | 151,119 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 119,197 | 3/4 | 127,298 | 3/4 | 135,409 | 3/4 | 143,520 | 3/4 | 151,179 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 119,366 | 8 | 127,467 | 8 | 135,578 | 8 | 143,689 | 8 | 151,240 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 119,534 | 1/4 | 127,636 | 1/4 | 135,747 | 1/4 | 143,858 | 1/4 | 151,260 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 119,702 | 1/2 | 127,805 | 1/2 | 135,916 | 1/2 | 144,027 | 1/2 | 151,280 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 119,871 | 3/4 | 127,974 | 3/4 | 136,085 | 3/4 | 144,196 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 120,039 | 9 | 128,143 | 9 | 136,254 | 9 | 144,365 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 120,208 | 1/4 | 128,312 | 1/4 | 136,423 | 1/4 | 144,534 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 120,376 | 1/2 | 128,481 | 1/2 | 136,592 | 1/2 | 144,703 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 120,544 | 3/4 | 128,650 | 3/4 | 136,761 | 3/4 | 144,872 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 120,713 | 10 | 128,819 | 10 | 136,930 | 10 | 145,041 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 120,881 | 1/4 | 128,988 | 1/4 | 137,099 | 1/4 | 145,210 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 121,050 | 1/2 | 129,157 | 1/2 | 137,268 | 1/2 | 145,379 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 121,218 | 3/4 | 129,326 | 3/4 | 137,437 | 3/4 | 145,548 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 121,386 | 11 | 129,495 | 11 | 137,606 | 11 | 145,717 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 121,555 | 1/4 | 129,664 | 1/4 | 137,775 | 1/4 | 145,886 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 121,723 | 1/2 | 129,833 | 1/2 | 137,944 | 1/2 | 146,055 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 121,892 | 3/4 | 130,002 | 3/4 | 138,113 | 3/4 | 146,224 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2019 SW
CALCULATED: 11/04/2019 CL
PRINTED: 11/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "CBC 1417"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 39 | 0 | 10,061 | 0 | 23,487 | 0 | 36,752 | 0 | 50,016 | 0 | 63,443 | 0 | 76,871 | 0 | 90,298 | 0 | 103,725 | 0 | 117,152 |
| 1/4 | 63 | 1/4 | 10,340 | 1/4 | 23,767 | 1/4 | 37,023 | 1/4 | 50,296 | 1/4 | 63,723 | 1/4 | 77,150 | 1/4 | 90,578 | 1/4 | 104,005 | 1/4 | 117,432 |
| 1/2 | 86 | 1/2 | 10,620 | 1/2 | 24,047 | 1/2 | 37,295 | 1/2 | 50,575 | 1/2 | 64,003 | 1/2 | 77,430 | 1/2 | 90,857 | 1/2 | 104,285 | 1/2 | 117,712 |
| 3/4 | 109 | 3/4 | 10,900 | 3/4 | 24,327 | 3/4 | 37,566 | 3/4 | 50,855 | 3/4 | 64,283 | 3/4 | 77,710 | 3/4 | 91,137 | 3/4 | 104,564 | 3/4 | 117,992 |
| 1 | 133 | 1 | 11,179 | 1 | 24,606 | 1 | 37,838 | 1 | 51,135 | 1 | 64,562 | 1 | 77,990 | 1 | 91,417 | 1 | 104,844 | 1 | 118,271 |
| 1/4 | 202 | 1/4 | 11,459 | 1/4 | 24,886 | 1/4 | 38,109 | 1/4 | 51,415 | 1/4 | 64,842 | 1/4 | 78,269 | 1/4 | 91,697 | 1/4 | 105,124 | 1/4 | 118,551 |
| 1/2 | 272 | 1/2 | 11,739 | 1/2 | 25,166 | 1/2 | 38,381 | 1/2 | 51,694 | 1/2 | 65,122 | 1/2 | 78,549 | 1/2 | 91,976 | 1/2 | 105,404 | 1/2 | 118,831 |
| 3/4 | 342 | 3/4 | 12,019 | 3/4 | 25,445 | 3/4 | 38,652 | 3/4 | 51,974 | 3/4 | 65,401 | 3/4 | 78,829 | 3/4 | 92,256 | 3/4 | 105,683 | 3/4 | 119,111 |
| 2 | 412 | 2 | 12,298 | 2 | 25,725 | 2 | 38,924 | 2 | 52,254 | 2 | 65,681 | 2 | 79,108 | 2 | 92,536 | 2 | 105,963 | 2 | 119,390 |
| 1/4 | 529 | 1/4 | 12,578 | 1/4 | 26,005 | 1/4 | 39,195 | 1/4 | 52,534 | 1/4 | 65,961 | 1/4 | 79,388 | 1/4 | 92,816 | 1/4 | 106,243 | 1/4 | 119,670 |
| 1/2 | 645 | 1/2 | 12,858 | 1/2 | 26,285 | 1/2 | 39,467 | 1/2 | 52,813 | 1/2 | 66,241 | 1/2 | 79,668 | 1/2 | 93,095 | 1/2 | 106,523 | 1/2 | 119,950 |
| 3/4 | 762 | 3/4 | 13,138 | 3/4 | 26,564 | 3/4 | 39,738 | 3/4 | 53,093 | 3/4 | 66,520 | 3/4 | 79,948 | 3/4 | 93,375 | 3/4 | 106,802 | 3/4 | 120,230 |
| 3 | 878 | 3 | 13,417 | 3 | 26,844 | 3 | 40,010 | 3 | 53,373 | 3 | 66,800 | 3 | 80,227 | 3 | 93,655 | 3 | 107,082 | 3 | 120,509 |
| 1/4 | 1,042 | 1/4 | 13,697 | 1/4 | 27,124 | 1/4 | 40,281 | 1/4 | 53,653 | 1/4 | 67,080 | 1/4 | 80,507 | 1/4 | 93,934 | 1/4 | 107,362 | 1/4 | 120,789 |
| 1/2 | 1,205 | 1/2 | 13,977 | 1/2 | 27,404 | 1/2 | 40,553 | 1/2 | 53,932 | 1/2 | 67,360 | 1/2 | 80,787 | 1/2 | 94,214 | 1/2 | 107,641 | 1/2 | 121,069 |
| 3/4 | 1,368 | 3/4 | 14,256 | 3/4 | 27,683 | 3/4 | 40,824 | 3/4 | 54,212 | 3/4 | 67,639 | 3/4 | 81,067 | 3/4 | 94,494 | 3/4 | 107,921 | 3/4 | 121,349 |
| 4 | 1,531 | 4 | 14,536 | 4 | 27,963 | 4 | 41,096 | 4 | 54,492 | 4 | 67,919 | 4 | 81,346 | 4 | 94,774 | 4 | 108,201 | 4 | 121,628 |
| 1/4 | 1,741 | 1/4 | 14,816 | 1/4 | 28,243 | 1/4 | 41,368 | 1/4 | 54,772 | 1/4 | 68,199 | 1/4 | 81,626 | 1/4 | 95,053 | 1/4 | 108,481 | 1/4 | 121,908 |
| 1/2 | 1,951 | 1/2 | 15,096 | 1/2 | 28,522 | 1/2 | 41,640 | 1/2 | 55,051 | 1/2 | 68,479 | 1/2 | 81,906 | 1/2 | 95,333 | 1/2 | 108,760 | 1/2 | 122,188 |
| 3/4 | 2,161 | 3/4 | 15,375 | 3/4 | 28,802 | 3/4 | 41,912 | 3/4 | 55,331 | 3/4 | 68,758 | 3/4 | 82,186 | 3/4 | 95,613 | 3/4 | 109,040 | 3/4 | 122,467 |
| 5 | 2,370 | 5 | 15,655 | 5 | 29,082 | 5 | 42,183 | 5 | 55,611 | 5 | 69,038 | 5 | 82,465 | 5 | 95,893 | 5 | 109,320 | 5 | 122,747 |
| 1/4 | 2,626 | 1/4 | 15,935 | 1/4 | 29,362 | 1/4 | 42,463 | 1/4 | 55,890 | 1/4 | 69,318 | 1/4 | 82,745 | 1/4 | 96,172 | 1/4 | 109,600 | 1/4 | 123,027 |
| 1/2 | 2,882 | 1/2 | 16,215 | 1/2 | 29,641 | 1/2 | 42,743 | 1/2 | 56,170 | 1/2 | 69,597 | 1/2 | 83,025 | 1/2 | 96,452 | 1/2 | 109,879 | 1/2 | 123,307 |
| 3/4 | 3,137 | 3/4 | 16,494 | 3/4 | 29,921 | 3/4 | 43,023 | 3/4 | 56,450 | 3/4 | 69,877 | 3/4 | 83,305 | 3/4 | 96,732 | 3/4 | 110,159 | 3/4 | 123,586 |
| 6 | 3,393 | 6 | 16,774 | 6 | 30,201 | 6 | 43,302 | 6 | 56,730 | 6 | 70,157 | 6 | 83,584 | 6 | 97,012 | 6 | 110,439 | 6 | 123,866 |
| 1/4 | 3,667 | 1/4 | 17,054 | 1/4 | 30,481 | 1/4 | 43,582 | 1/4 | 57,009 | 1/4 | 70,437 | 1/4 | 83,864 | 1/4 | 97,291 | 1/4 | 110,719 | 1/4 | 124,146 |
| 1/2 | 3,941 | 1/2 | 17,333 | 1/2 | 30,760 | 1/2 | 43,862 | 1/2 | 57,289 | 1/2 | 70,716 | 1/2 | 84,144 | 1/2 | 97,571 | 1/2 | 110,998 | 1/2 | 124,426 |
| 3/4 | 4,215 | 3/4 | 17,613 | 3/4 | 31,040 | 3/4 | 44,142 | 3/4 | 57,569 | 3/4 | 70,996 | 3/4 | 84,423 | 3/4 | 97,851 | 3/4 | 111,278 | 3/4 | 124,705 |
| 7 | 4,490 | 7 | 17,893 | 7 | 31,320 | 7 | 44,421 | 7 | 57,849 | 7 | 71,276 | 7 | 84,703 | 7 | 98,130 | 7 | 111,558 | 7 | 124,985 |
| 1/4 | 4,766 | 1/4 | 18,173 | 1/4 | 31,592 | 1/4 | 44,701 | 1/4 | 58,128 | 1/4 | 71,556 | 1/4 | 84,983 | 1/4 | 98,410 | 1/4 | 111,838 | 1/4 | 125,265 |
| 1/2 | 5,043 | 1/2 | 18,452 | 1/2 | 31,863 | 1/2 | 44,981 | 1/2 | 58,408 | 1/2 | 71,835 | 1/2 | 85,263 | 1/2 | 98,690 | 1/2 | 112,117 | 1/2 | 125,545 |
| 3/4 | 5,319 | 3/4 | 18,732 | 3/4 | 32,135 | 3/4 | 45,261 | 3/4 | 58,688 | 3/4 | 72,115 | 3/4 | 85,542 | 3/4 | 98,970 | 3/4 | 112,397 | 3/4 | 125,824 |
| 8 | 5,596 | 8 | 19,012 | 8 | 32,407 | 8 | 45,540 | 8 | 58,968 | 8 | 72,395 | 8 | 85,822 | 8 | 99,249 | 8 | 112,677 | 8 | 126,104 |
| 1/4 | 5,874 | 1/4 | 19,292 | 1/4 | 32,679 | 1/4 | 45,820 | 1/4 | 59,247 | 1/4 | 72,675 | 1/4 | 86,102 | 1/4 | 99,529 | 1/4 | 112,956 | 1/4 | 126,384 |
| 1/2 | 6,152 | 1/2 | 19,571 | 1/2 | 32,950 | 1/2 | 46,100 | 1/2 | 59,527 | 1/2 | 72,954 | 1/2 | 86,382 | 1/2 | 99,809 | 1/2 | 113,236 | 1/2 | 126,663 |
| 3/4 | 6,430 | 3/4 | 19,851 | 3/4 | 33,222 | 3/4 | 46,379 | 3/4 | 59,807 | 3/4 | 73,234 | 3/4 | 86,661 | 3/4 | 100,089 | 3/4 | 113,516 | 3/4 | 126,943 |
| 9 | 6,708 | 9 | 20,131 | 9 | 33,493 | 9 | 46,659 | 9 | 60,086 | 9 | 73,514 | 9 | 86,941 | 9 | 100,368 | 9 | 113,796 | 9 | 127,223 |
| 1/4 | 6,987 | 1/4 | 20,410 | 1/4 | 33,765 | 1/4 | 46,939 | 1/4 | 60,366 | 1/4 | 73,794 | 1/4 | 87,221 | 1/4 | 100,648 | 1/4 | 114,075 | 1/4 | 127,503 |
| 1/2 | 7,266 | 1/2 | 20,690 | 1/2 | 34,036 | 1/2 | 47,219 | 1/2 | 60,646 | 1/2 | 74,073 | 1/2 | 87,501 | 1/2 | 100,928 | 1/2 | 114,355 | 1/2 | 127,782 |
| 3/4 | 7,545 | 3/4 | 20,970 | 3/4 | 34,308 | 3/4 | 47,498 | 3/4 | 60,926 | 3/4 | 74,353 | 3/4 | 87,780 | 3/4 | 101,208 | 3/4 | 114,635 | 3/4 | 128,062 |
| 10 | 7,824 | 10 | 21,250 | 10 | 34,579 | 10 | 47,778 | 10 | 61,205 | 10 | 74,633 | 10 | 88,060 | 10 | 101,487 | 10 | 114,915 | 10 | 128,342 |
| 1/4 | 8,103 | 1/4 | 21,529 | 1/4 | 34,851 | 1/4 | 48,058 | 1/4 | 61,485 | 1/4 | 74,912 | 1/4 | 88,340 | 1/4 | 101,767 | 1/4 | 115,194 | 1/4 | 128,622 |
| 1/2 | 8,383 | 1/2 | 21,809 | 1/2 | 35,122 | 1/2 | 48,338 | 1/2 | 61,765 | 1/2 | 75,192 | 1/2 | 88,619 | 1/2 | 102,047 | 1/2 | 115,474 | 1/2 | 128,901 |
| 3/4 | 8,662 | 3/4 | 22,089 | 3/4 | 35,394 | 3/4 | 48,617 | 3/4 | 62,045 | 3/4 | 75,472 | 3/4 | 88,899 | 3/4 | 102,327 | 3/4 | 115,754 | 3/4 | 129,181 |
| 11 | 8,942 | 11 | 22,369 | 11 | 35,665 | 11 | 48,897 | 11 | 62,324 | 11 | 75,752 | 11 | 89,179 | 11 | 102,606 | 11 | 116,034 | 11 | 129,461 |
| 1/4 | 9,221 | 1/4 | 22,648 | 1/4 | 35,937 | 1/4 | 49,177 | 1/4 | 62,604 | 1/4 | 76,031 | 1/4 | 89,459 | 1/4 | 102,886 | 1/4 | 116,313 | 1/4 | 129,741 |
| 1/2 | 9,501 | 1/2 | 22,928 | 1/2 | 36,209 | 1/2 | 49,457 | 1/2 | 62,884 | 1/2 | 76,311 | 1/2 | 89,738 | 1/2 | 103,166 | 1/2 | 116,593 | 1/2 | 130,020 |
| 3/4 | 9,781 | 3/4 | 23,208 | 3/4 | 36,480 | 3/4 | 49,736 | 3/4 | 63,164 | 3/4 | 76,591 | 3/4 | 90,018 | 3/4 | 103,445 | 3/4 | 116,873 | 3/4 | 130,300 |

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 ON CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD

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



BARGE "CBC 1417"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | | | |
|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---|--------|---|--------|---|--------|---|--------|---|-----|---|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | 130,860 | 1/4 | 144,287 | 1/4 | 157,714 | 1/4 | 171,141 | 1/4 | 184,569 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 131,139 | 1/2 | 144,567 | 1/2 | 157,994 | 1/2 | 171,421 | 1/2 | 184,848 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 131,419 | 3/4 | 144,846 | 3/4 | 158,274 | 3/4 | 171,701 | 3/4 | 185,128 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 131,699 | 1 | 145,126 | 1 | 158,553 | 1 | 171,981 | 1 | 185,408 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 131,978 | 1/4 | 145,406 | 1/4 | 158,833 | 1/4 | 172,260 | 1/4 | 185,688 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 132,258 | 1/2 | 145,685 | 1/2 | 159,113 | 1/2 | 172,540 | 1/2 | 185,967 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 132,538 | 3/4 | 145,965 | 3/4 | 159,393 | 3/4 | 172,820 | 3/4 | 186,247 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 132,818 | 2 | 146,245 | 2 | 159,672 | 2 | 173,100 | 2 | 186,527 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 133,097 | 1/4 | 146,525 | 1/4 | 159,952 | 1/4 | 173,379 | 1/4 | 186,807 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 133,377 | 1/2 | 146,804 | 1/2 | 160,232 | 1/2 | 173,659 | 1/2 | 187,086 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 133,657 | 3/4 | 147,084 | 3/4 | 160,511 | 3/4 | 173,939 | 3/4 | 187,366 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 133,937 | 3 | 147,364 | 3 | 160,791 | 3 | 174,218 | 3 | 187,646 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 134,216 | 1/4 | 147,644 | 1/4 | 161,071 | 1/4 | 174,498 | 1/4 | 187,902 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 134,496 | 1/2 | 147,923 | 1/2 | 161,351 | 1/2 | 174,778 | 1/2 | 188,159 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 134,776 | 3/4 | 148,203 | 3/4 | 161,630 | 3/4 | 175,058 | 3/4 | 188,415 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 135,056 | 4 | 148,483 | 4 | 161,910 | 4 | 175,337 | 4 | 188,671 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 135,335 | 1/4 | 148,763 | 1/4 | 162,190 | 1/4 | 175,617 | 1/4 | 188,881 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 135,615 | 1/2 | 149,042 | 1/2 | 162,470 | 1/2 | 175,897 | 1/2 | 189,091 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 135,895 | 3/4 | 149,322 | 3/4 | 162,749 | 3/4 | 176,177 | 3/4 | 189,301 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 136,174 | 5 | 149,602 | 5 | 163,029 | 5 | 176,456 | 5 | 189,511 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 136,454 | 1/4 | 149,882 | 1/4 | 163,309 | 1/4 | 176,736 | 1/4 | 189,674 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 136,734 | 1/2 | 150,161 | 1/2 | 163,589 | 1/2 | 177,016 | 1/2 | 189,837 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 137,014 | 3/4 | 150,441 | 3/4 | 163,868 | 3/4 | 177,296 | 3/4 | 190,000 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 137,293 | 6 | 150,721 | 6 | 164,148 | 6 | 177,575 | 6 | 190,163 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 137,573 | 1/4 | 151,000 | 1/4 | 164,428 | 1/4 | 177,855 | 1/4 | 190,280 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 137,853 | 1/2 | 151,280 | 1/2 | 164,707 | 1/2 | 178,135 | 1/2 | 190,396 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 138,133 | 3/4 | 151,560 | 3/4 | 164,987 | 3/4 | 178,415 | 3/4 | 190,513 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 138,412 | 7 | 151,840 | 7 | 165,267 | 7 | 178,694 | 7 | 190,630 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 138,692 | 1/4 | 152,119 | 1/4 | 165,547 | 1/4 | 178,974 | 1/4 | 190,700 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 138,972 | 1/2 | 152,399 | 1/2 | 165,826 | 1/2 | 179,254 | 1/2 | 190,769 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 139,252 | 3/4 | 152,679 | 3/4 | 166,106 | 3/4 | 179,533 | 3/4 | 190,839 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 139,531 | 8 | 152,959 | 8 | 166,386 | 8 | 179,813 | 8 | 190,909 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 139,811 | 1/4 | 153,238 | 1/4 | 166,666 | 1/4 | 180,093 | 1/4 | 190,933 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 140,091 | 1/2 | 153,518 | 1/2 | 166,945 | 1/2 | 180,373 | 1/2 | 190,956 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 140,371 | 3/4 | 153,798 | 3/4 | 167,225 | 3/4 | 180,652 | 3/4 | 190,956 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 140,650 | 9 | 154,078 | 9 | 167,505 | 9 | 180,932 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 140,930 | 1/4 | 154,357 | 1/4 | 167,785 | 1/4 | 181,212 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 141,210 | 1/2 | 154,637 | 1/2 | 168,064 | 1/2 | 181,492 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 141,489 | 3/4 | 154,917 | 3/4 | 168,344 | 3/4 | 181,771 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 141,769 | 10 | 155,196 | 10 | 168,624 | 10 | 182,051 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 142,049 | 1/4 | 155,476 | 1/4 | 168,904 | 1/4 | 182,331 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 142,329 | 1/2 | 155,756 | 1/2 | 169,183 | 1/2 | 182,611 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 142,608 | 3/4 | 156,036 | 3/4 | 169,463 | 3/4 | 182,890 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 142,888 | 11 | 156,315 | 11 | 169,743 | 11 | 183,170 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 143,168 | 1/4 | 156,595 | 1/4 | 170,022 | 1/4 | 183,450 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 143,448 | 1/2 | 156,875 | 1/2 | 170,302 | 1/2 | 183,729 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 143,727 | 3/4 | 157,155 | 3/4 | 170,582 | 3/4 | 184,009 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2019 SW
CALCULATED: 11/04/2019 CL
PRINTED: 11/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "CBC 1417"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 39 | 0 | 8,986 | 0 | 20,973 | 0 | 32,946 | 0 | 44,922 | 0 | 56,909 | 0 | 68,897 | 0 | 80,884 | 0 | 92,872 | 0 | 104,859 |
| 1/4 | 60 | 1/4 | 9,236 | 1/4 | 21,223 | 1/4 | 33,195 | 1/4 | 45,172 | 1/4 | 57,159 | 1/4 | 69,147 | 1/4 | 81,134 | 1/4 | 93,122 | 1/4 | 105,109 |
| 1/2 | 81 | 1/2 | 9,485 | 1/2 | 21,473 | 1/2 | 33,444 | 1/2 | 45,421 | 1/2 | 57,409 | 1/2 | 69,396 | 1/2 | 81,384 | 1/2 | 93,371 | 1/2 | 105,359 |
| 3/4 | 102 | 3/4 | 9,735 | 3/4 | 21,722 | 3/4 | 33,693 | 3/4 | 45,671 | 3/4 | 57,659 | 3/4 | 69,646 | 3/4 | 81,634 | 3/4 | 93,621 | 3/4 | 105,608 |
| 1 | 123 | 1 | 9,985 | 1 | 21,972 | 1 | 33,942 | 1 | 45,921 | 1 | 57,908 | 1 | 69,896 | 1 | 81,883 | 1 | 93,871 | 1 | 105,858 |
| 1/4 | 185 | 1/4 | 10,235 | 1/4 | 22,222 | 1/4 | 34,191 | 1/4 | 46,171 | 1/4 | 58,158 | 1/4 | 70,146 | 1/4 | 82,133 | 1/4 | 94,120 | 1/4 | 106,108 |
| 1/2 | 248 | 1/2 | 10,484 | 1/2 | 22,471 | 1/2 | 34,440 | 1/2 | 46,420 | 1/2 | 58,408 | 1/2 | 70,395 | 1/2 | 82,383 | 1/2 | 94,370 | 1/2 | 106,358 |
| 3/4 | 310 | 3/4 | 10,734 | 3/4 | 22,721 | 3/4 | 34,689 | 3/4 | 46,670 | 3/4 | 58,657 | 3/4 | 70,645 | 3/4 | 82,632 | 3/4 | 94,620 | 3/4 | 106,607 |
| 2 | 372 | 2 | 10,984 | 2 | 22,971 | 2 | 34,938 | 2 | 46,920 | 2 | 58,907 | 2 | 70,895 | 2 | 82,882 | 2 | 94,870 | 2 | 106,857 |
| 1/4 | 476 | 1/4 | 11,234 | 1/4 | 23,221 | 1/4 | 35,187 | 1/4 | 47,169 | 1/4 | 59,157 | 1/4 | 71,144 | 1/4 | 83,132 | 1/4 | 95,119 | 1/4 | 107,107 |
| 1/2 | 580 | 1/2 | 11,483 | 1/2 | 23,470 | 1/2 | 35,436 | 1/2 | 47,419 | 1/2 | 59,407 | 1/2 | 71,394 | 1/2 | 83,382 | 1/2 | 95,369 | 1/2 | 107,357 |
| 3/4 | 685 | 3/4 | 11,733 | 3/4 | 23,720 | 3/4 | 35,685 | 3/4 | 47,669 | 3/4 | 59,656 | 3/4 | 71,644 | 3/4 | 83,631 | 3/4 | 95,619 | 3/4 | 107,606 |
| 3 | 789 | 3 | 11,983 | 3 | 23,970 | 3 | 35,934 | 3 | 47,919 | 3 | 59,906 | 3 | 71,894 | 3 | 83,881 | 3 | 95,869 | 3 | 107,856 |
| 1/4 | 934 | 1/4 | 12,233 | 1/4 | 24,220 | 1/4 | 36,183 | 1/4 | 48,168 | 1/4 | 60,156 | 1/4 | 72,143 | 1/4 | 84,131 | 1/4 | 96,118 | 1/4 | 108,106 |
| 1/2 | 1,080 | 1/2 | 12,482 | 1/2 | 24,469 | 1/2 | 36,432 | 1/2 | 48,418 | 1/2 | 60,406 | 1/2 | 72,393 | 1/2 | 84,381 | 1/2 | 96,368 | 1/2 | 108,356 |
| 3/4 | 1,226 | 3/4 | 12,732 | 3/4 | 24,719 | 3/4 | 36,681 | 3/4 | 48,668 | 3/4 | 60,655 | 3/4 | 72,643 | 3/4 | 84,630 | 3/4 | 96,618 | 3/4 | 108,605 |
| 4 | 1,371 | 4 | 12,982 | 4 | 24,969 | 4 | 36,930 | 4 | 48,918 | 4 | 60,905 | 4 | 72,893 | 4 | 84,880 | 4 | 96,868 | 4 | 108,855 |
| 1/4 | 1,559 | 1/4 | 13,231 | 1/4 | 25,218 | 1/4 | 37,180 | 1/4 | 49,167 | 1/4 | 61,155 | 1/4 | 73,142 | 1/4 | 85,130 | 1/4 | 97,117 | 1/4 | 109,105 |
| 1/2 | 1,746 | 1/2 | 13,481 | 1/2 | 25,468 | 1/2 | 37,430 | 1/2 | 49,417 | 1/2 | 61,405 | 1/2 | 73,392 | 1/2 | 85,380 | 1/2 | 97,367 | 1/2 | 109,355 |
| 3/4 | 1,933 | 3/4 | 13,731 | 3/4 | 25,718 | 3/4 | 37,679 | 3/4 | 49,667 | 3/4 | 61,654 | 3/4 | 73,642 | 3/4 | 85,629 | 3/4 | 97,617 | 3/4 | 109,604 |
| 5 | 2,120 | 5 | 13,981 | 5 | 25,968 | 5 | 37,929 | 5 | 49,917 | 5 | 61,904 | 5 | 73,892 | 5 | 85,879 | 5 | 97,867 | 5 | 109,854 |
| 1/4 | 2,349 | 1/4 | 14,230 | 1/4 | 26,217 | 1/4 | 38,179 | 1/4 | 50,166 | 1/4 | 62,154 | 1/4 | 74,141 | 1/4 | 86,129 | 1/4 | 98,116 | 1/4 | 110,104 |
| 1/2 | 2,577 | 1/2 | 14,480 | 1/2 | 26,467 | 1/2 | 38,429 | 1/2 | 50,416 | 1/2 | 62,404 | 1/2 | 74,391 | 1/2 | 86,379 | 1/2 | 98,366 | 1/2 | 110,354 |
| 3/4 | 2,805 | 3/4 | 14,730 | 3/4 | 26,717 | 3/4 | 38,678 | 3/4 | 50,666 | 3/4 | 62,653 | 3/4 | 74,641 | 3/4 | 86,628 | 3/4 | 98,616 | 3/4 | 110,603 |
| 6 | 3,033 | 6 | 14,980 | 6 | 26,967 | 6 | 38,928 | 6 | 50,916 | 6 | 62,903 | 6 | 74,891 | 6 | 86,878 | 6 | 98,866 | 6 | 110,853 |
| 1/4 | 3,278 | 1/4 | 15,229 | 1/4 | 27,216 | 1/4 | 39,178 | 1/4 | 51,165 | 1/4 | 63,153 | 1/4 | 75,140 | 1/4 | 87,128 | 1/4 | 99,115 | 1/4 | 111,103 |
| 1/2 | 3,523 | 1/2 | 15,479 | 1/2 | 27,465 | 1/2 | 39,428 | 1/2 | 51,415 | 1/2 | 63,403 | 1/2 | 75,390 | 1/2 | 87,378 | 1/2 | 99,365 | 1/2 | 111,352 |
| 3/4 | 3,768 | 3/4 | 15,729 | 3/4 | 27,715 | 3/4 | 39,677 | 3/4 | 51,665 | 3/4 | 63,652 | 3/4 | 75,640 | 3/4 | 87,627 | 3/4 | 99,615 | 3/4 | 111,602 |
| 7 | 4,013 | 7 | 15,978 | 7 | 27,964 | 7 | 39,927 | 7 | 51,915 | 7 | 63,902 | 7 | 75,890 | 7 | 87,877 | 7 | 99,864 | 7 | 111,852 |
| 1/4 | 4,259 | 1/4 | 16,228 | 1/4 | 28,213 | 1/4 | 40,177 | 1/4 | 52,164 | 1/4 | 64,152 | 1/4 | 76,139 | 1/4 | 88,127 | 1/4 | 100,114 | 1/4 | 112,102 |
| 1/2 | 4,506 | 1/2 | 16,478 | 1/2 | 28,463 | 1/2 | 40,427 | 1/2 | 52,414 | 1/2 | 64,401 | 1/2 | 76,389 | 1/2 | 88,376 | 1/2 | 100,364 | 1/2 | 112,351 |
| 3/4 | 4,753 | 3/4 | 16,728 | 3/4 | 28,712 | 3/4 | 40,676 | 3/4 | 52,664 | 3/4 | 64,651 | 3/4 | 76,639 | 3/4 | 88,626 | 3/4 | 100,614 | 3/4 | 112,601 |
| 8 | 5,000 | 8 | 16,977 | 8 | 28,962 | 8 | 40,926 | 8 | 52,913 | 8 | 64,901 | 8 | 76,888 | 8 | 88,876 | 8 | 100,863 | 8 | 112,851 |
| 1/4 | 5,248 | 1/4 | 17,227 | 1/4 | 29,211 | 1/4 | 41,176 | 1/4 | 53,163 | 1/4 | 65,151 | 1/4 | 77,138 | 1/4 | 89,126 | 1/4 | 101,113 | 1/4 | 113,101 |
| 1/2 | 5,497 | 1/2 | 17,477 | 1/2 | 29,460 | 1/2 | 41,425 | 1/2 | 53,413 | 1/2 | 65,400 | 1/2 | 77,388 | 1/2 | 89,375 | 1/2 | 101,363 | 1/2 | 113,350 |
| 3/4 | 5,745 | 3/4 | 17,727 | 3/4 | 29,709 | 3/4 | 41,675 | 3/4 | 53,663 | 3/4 | 65,650 | 3/4 | 77,638 | 3/4 | 89,625 | 3/4 | 101,613 | 3/4 | 113,600 |
| 9 | 5,993 | 9 | 17,976 | 9 | 29,958 | 9 | 41,925 | 9 | 53,912 | 9 | 65,900 | 9 | 77,887 | 9 | 89,875 | 9 | 101,862 | 9 | 113,850 |
| 1/4 | 6,242 | 1/4 | 18,226 | 1/4 | 30,207 | 1/4 | 42,175 | 1/4 | 54,162 | 1/4 | 66,150 | 1/4 | 78,137 | 1/4 | 90,125 | 1/4 | 102,112 | 1/4 | 114,100 |
| 1/2 | 6,491 | 1/2 | 18,476 | 1/2 | 30,456 | 1/2 | 42,424 | 1/2 | 54,412 | 1/2 | 66,399 | 1/2 | 78,387 | 1/2 | 90,374 | 1/2 | 102,362 | 1/2 | 114,349 |
| 3/4 | 6,740 | 3/4 | 18,725 | 3/4 | 30,705 | 3/4 | 42,674 | 3/4 | 54,662 | 3/4 | 66,649 | 3/4 | 78,637 | 3/4 | 90,624 | 3/4 | 102,612 | 3/4 | 114,599 |
| 10 | 6,989 | 10 | 18,975 | 10 | 30,954 | 10 | 42,924 | 10 | 54,911 | 10 | 66,899 | 10 | 78,886 | 10 | 90,874 | 10 | 102,861 | 10 | 114,849 |
| 1/4 | 7,239 | 1/4 | 19,225 | 1/4 | 31,203 | 1/4 | 43,174 | 1/4 | 55,161 | 1/4 | 67,149 | 1/4 | 79,136 | 1/4 | 91,124 | 1/4 | 103,111 | 1/4 | 115,099 |
| 1/2 | 7,488 | 1/2 | 19,475 | 1/2 | 31,452 | 1/2 | 43,423 | 1/2 | 55,411 | 1/2 | 67,398 | 1/2 | 79,386 | 1/2 | 91,373 | 1/2 | 103,361 | 1/2 | 115,348 |
| 3/4 | 7,738 | 3/4 | 19,724 | 3/4 | 31,701 | 3/4 | 43,673 | 3/4 | 55,661 | 3/4 | 67,648 | 3/4 | 79,636 | 3/4 | 91,623 | 3/4 | 103,611 | 3/4 | 115,598 |
| 11 | 7,987 | 11 | 19,974 | 11 | 31,950 | 11 | 43,923 | 11 | 55,910 | 11 | 67,898 | 11 | 79,885 | 11 | 91,873 | 11 | 103,860 | 11 | 115,848 |
| 1/4 | 8,237 | 1/4 | 20,224 | 1/4 | 32,199 | 1/4 | 44,173 | 1/4 | 56,160 | 1/4 | 68,148 | 1/4 | 80,135 | 1/4 | 92,123 | 1/4 | 104,110 | 1/4 | 116,098 |
| 1/2 | 8,487 | 1/2 | 20,474 | 1/2 | 32,448 | 1/2 | 44,422 | 1/2 | 56,410 | 1/2 | 68,397 | 1/2 | 80,385 | 1/2 | 92,372 | 1/2 | 104,360 | 1/2 | 116,347 |
| 3/4 | 8,736 | 3/4 | 20,723 | 3/4 | 32,697 | 3/4 | 44,672 | 3/4 | 56,660 | 3/4 | 68,647 | 3/4 | 80,635 | 3/4 | 92,622 | 3/4 | 104,610 | 3/4 | 116,597 |

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 ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "CBC 1417"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 116,847 | 0 | 128,834 | 0 | 140,822 | 0 | 152,809 | 0 | 164,797 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 117,096 | 1/4 | 129,084 | 1/4 | 141,071 | 1/4 | 153,059 | 1/4 | 165,046 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 117,346 | 1/2 | 129,334 | 1/2 | 141,321 | 1/2 | 153,309 | 1/2 | 165,296 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 117,596 | 3/4 | 129,583 | 3/4 | 141,571 | 3/4 | 153,558 | 3/4 | 165,546 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 117,846 | 1 | 129,833 | 1 | 141,821 | 1 | 153,808 | 1 | 165,796 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 118,095 | 1/4 | 130,083 | 1/4 | 142,070 | 1/4 | 154,058 | 1/4 | 166,045 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 118,345 | 1/2 | 130,333 | 1/2 | 142,320 | 1/2 | 154,308 | 1/2 | 166,295 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 118,595 | 3/4 | 130,582 | 3/4 | 142,570 | 3/4 | 154,557 | 3/4 | 166,545 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 118,845 | 2 | 130,832 | 2 | 142,820 | 2 | 154,807 | 2 | 166,795 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 119,094 | 1/4 | 131,082 | 1/4 | 143,069 | 1/4 | 155,057 | 1/4 | 167,044 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 119,344 | 1/2 | 131,332 | 1/2 | 143,319 | 1/2 | 155,307 | 1/2 | 167,294 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 119,594 | 3/4 | 131,581 | 3/4 | 143,569 | 3/4 | 155,556 | 3/4 | 167,544 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 119,844 | 3 | 131,831 | 3 | 143,819 | 3 | 155,806 | 3 | 167,794 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 120,093 | 1/4 | 132,081 | 1/4 | 144,068 | 1/4 | 156,056 | 1/4 | 168,022 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 120,343 | 1/2 | 132,331 | 1/2 | 144,318 | 1/2 | 156,306 | 1/2 | 168,251 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 120,593 | 3/4 | 132,580 | 3/4 | 144,568 | 3/4 | 156,555 | 3/4 | 168,480 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 120,843 | 4 | 132,830 | 4 | 144,818 | 4 | 156,805 | 4 | 168,709 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 121,092 | 1/4 | 133,080 | 1/4 | 145,067 | 1/4 | 157,055 | 1/4 | 168,897 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 121,342 | 1/2 | 133,330 | 1/2 | 145,317 | 1/2 | 157,304 | 1/2 | 169,084 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 121,592 | 3/4 | 133,579 | 3/4 | 145,567 | 3/4 | 157,554 | 3/4 | 169,271 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 121,842 | 5 | 133,829 | 5 | 145,816 | 5 | 157,804 | 5 | 169,458 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 122,091 | 1/4 | 134,079 | 1/4 | 146,066 | 1/4 | 158,054 | 1/4 | 169,604 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 122,341 | 1/2 | 134,328 | 1/2 | 146,316 | 1/2 | 158,303 | 1/2 | 169,750 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 122,591 | 3/4 | 134,578 | 3/4 | 146,566 | 3/4 | 158,553 | 3/4 | 169,895 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 122,840 | 6 | 134,828 | 6 | 146,815 | 6 | 158,803 | 6 | 170,041 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 123,090 | 1/4 | 135,078 | 1/4 | 147,065 | 1/4 | 159,053 | 1/4 | 170,145 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 123,340 | 1/2 | 135,327 | 1/2 | 147,315 | 1/2 | 159,302 | 1/2 | 170,249 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 123,590 | 3/4 | 135,577 | 3/4 | 147,565 | 3/4 | 159,552 | 3/4 | 170,353 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 123,839 | 7 | 135,827 | 7 | 147,814 | 7 | 159,802 | 7 | 170,457 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 124,089 | 1/4 | 136,077 | 1/4 | 148,064 | 1/4 | 160,052 | 1/4 | 170,520 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 124,339 | 1/2 | 136,326 | 1/2 | 148,314 | 1/2 | 160,301 | 1/2 | 170,582 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 124,589 | 3/4 | 136,576 | 3/4 | 148,564 | 3/4 | 160,551 | 3/4 | 170,645 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 124,838 | 8 | 136,826 | 8 | 148,813 | 8 | 160,801 | 8 | 170,707 | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 125,088 | 1/4 | 137,076 | 1/4 | 149,063 | 1/4 | 161,051 | 1/4 | 170,728 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 125,338 | 1/2 | 137,325 | 1/2 | 149,313 | 1/2 | 161,300 | 1/2 | 170,749 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 125,588 | 3/4 | 137,575 | 3/4 | 149,563 | 3/4 | 161,550 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 125,837 | 9 | 137,825 | 9 | 149,812 | 9 | 161,800 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 126,087 | 1/4 | 138,075 | 1/4 | 150,062 | 1/4 | 162,050 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 126,337 | 1/2 | 138,324 | 1/2 | 150,312 | 1/2 | 162,299 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 126,587 | 3/4 | 138,574 | 3/4 | 150,562 | 3/4 | 162,549 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 126,836 | 10 | 138,824 | 10 | 150,811 | 10 | 162,799 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 127,086 | 1/4 | 139,074 | 1/4 | 151,061 | 1/4 | 163,048 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 127,336 | 1/2 | 139,323 | 1/2 | 151,311 | 1/2 | 163,298 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 127,586 | 3/4 | 139,573 | 3/4 | 151,560 | 3/4 | 163,548 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 127,835 | 11 | 139,823 | 11 | 151,810 | 11 | 163,798 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 128,085 | 1/4 | 140,072 | 1/4 | 152,060 | 1/4 | 164,047 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 128,335 | 1/2 | 140,322 | 1/2 | 152,310 | 1/2 | 164,297 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 128,584 | 3/4 | 140,572 | 3/4 | 152,559 | 3/4 | 164,547 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2019 SW
CALCULATED: 11/04/2019 CL
PRINTED: 11/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "CBC 1417"

ULLAGE TRIM TABLE

| | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | - 00-3/8 | 00-3/8 | - 00-3/4 | 00-3/4 | - 01-1/8 | 01-1/8 | - 01-1/2 | 01-1/2 | - 01-7/8 | 01-7/8 | - 02-1/4 | 02-1/4 |
| 2 CENTER | 00-1/8 | - 00-1/8 | 00-3/8 | - 00-3/8 | 00-1/2 | - 00-1/2 | 00-3/4 | - 00-3/4 | 00-7/8 | - 00-7/8 | 01-1/8 | - 01-1/8 |
| 3 CENTER | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/4 | 00-1/4 | - 00-1/4 | 00-1/4 | - 00-1/4 | 00-1/4 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 176'-06"

November 4, 2019

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "CBC 1417"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 0 | 151,280 | 0 | 144,027 | 0 | 135,916 | 0 | 127,805 | 0 | 119,702 | 0 | 109,160 | 0 | 97,587 | 0 | 86,013 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 151,260 | 1/4 | 143,858 | 1/4 | 135,747 | 1/4 | 127,636 | 1/4 | 119,534 | 1/4 | 108,919 | 1/4 | 97,346 | 1/4 | 85,772 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 151,240 | 1/2 | 143,689 | 1/2 | 135,578 | 1/2 | 127,467 | 1/2 | 119,366 | 1/2 | 108,678 | 1/2 | 97,105 | 1/2 | 85,531 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 151,179 | 3/4 | 143,520 | 3/4 | 135,409 | 3/4 | 127,298 | 3/4 | 119,197 | 3/4 | 108,437 | 3/4 | 96,863 | 3/4 | 85,290 |
| 1 | 1 | 1 | 1 | 1 | 151,119 | 1 | 143,352 | 1 | 135,241 | 1 | 127,129 | 1 | 119,029 | 1 | 108,196 | 1 | 96,622 | 1 | 85,049 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 151,058 | 1/4 | 143,183 | 1/4 | 135,072 | 1/4 | 126,961 | 1/4 | 118,860 | 1/4 | 107,954 | 1/4 | 96,381 | 1/4 | 84,808 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 150,998 | 1/2 | 143,014 | 1/2 | 134,903 | 1/2 | 126,792 | 1/2 | 118,692 | 1/2 | 107,713 | 1/2 | 96,140 | 1/2 | 84,567 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 150,897 | 3/4 | 142,845 | 3/4 | 134,734 | 3/4 | 126,623 | 3/4 | 118,523 | 3/4 | 107,472 | 3/4 | 95,899 | 3/4 | 84,326 |
| 2 | 2 | 2 | 2 | 2 | 150,797 | 2 | 142,676 | 2 | 134,565 | 2 | 126,454 | 2 | 118,355 | 2 | 107,231 | 2 | 95,658 | 2 | 84,085 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 150,696 | 1/4 | 142,507 | 1/4 | 134,396 | 1/4 | 126,285 | 1/4 | 118,187 | 1/4 | 106,990 | 1/4 | 95,417 | 1/4 | 83,843 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 150,595 | 1/2 | 142,338 | 1/2 | 134,227 | 1/2 | 126,116 | 1/2 | 118,018 | 1/2 | 106,749 | 1/2 | 95,176 | 1/2 | 83,602 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 150,454 | 3/4 | 142,169 | 3/4 | 134,058 | 3/4 | 125,947 | 3/4 | 117,850 | 3/4 | 106,508 | 3/4 | 94,935 | 3/4 | 83,361 |
| 3 | 3 | 3 | 3 | 3 | 150,313 | 3 | 142,000 | 3 | 133,889 | 3 | 125,778 | 3 | 117,682 | 3 | 106,267 | 3 | 94,694 | 3 | 83,120 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 150,173 | 1/4 | 141,831 | 1/4 | 133,720 | 1/4 | 125,609 | 1/4 | 117,514 | 1/4 | 106,026 | 1/4 | 94,452 | 1/4 | 82,879 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 150,032 | 1/2 | 141,662 | 1/2 | 133,551 | 1/2 | 125,440 | 1/2 | 117,347 | 1/2 | 105,784 | 1/2 | 94,211 | 1/2 | 82,638 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 149,850 | 3/4 | 141,493 | 3/4 | 133,382 | 3/4 | 125,271 | 3/4 | 117,106 | 3/4 | 105,543 | 3/4 | 93,970 | 3/4 | 82,397 |
| 4 | 4 | 4 | 4 | 4 | 149,669 | 4 | 141,324 | 4 | 133,213 | 4 | 125,102 | 4 | 116,865 | 4 | 105,302 | 4 | 93,729 | 4 | 82,157 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 149,488 | 1/4 | 141,155 | 1/4 | 133,044 | 1/4 | 124,933 | 1/4 | 116,625 | 1/4 | 105,061 | 1/4 | 93,488 | 1/4 | 81,917 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 149,307 | 1/2 | 140,986 | 1/2 | 132,875 | 1/2 | 124,764 | 1/2 | 116,384 | 1/2 | 104,820 | 1/2 | 93,247 | 1/2 | 81,676 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 149,085 | 3/4 | 140,817 | 3/4 | 132,706 | 3/4 | 124,595 | 3/4 | 116,144 | 3/4 | 104,579 | 3/4 | 93,006 | 3/4 | 81,437 |
| 5 | 5 | 5 | 5 | 5 | 148,864 | 5 | 140,648 | 5 | 132,537 | 5 | 124,426 | 5 | 115,903 | 5 | 104,338 | 5 | 92,765 | 5 | 81,197 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 148,642 | 1/4 | 140,479 | 1/4 | 132,368 | 1/4 | 124,257 | 1/4 | 115,663 | 1/4 | 104,097 | 1/4 | 92,524 | 1/4 | 80,957 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 148,421 | 1/2 | 140,310 | 1/2 | 132,199 | 1/2 | 124,088 | 1/2 | 115,422 | 1/2 | 103,856 | 1/2 | 92,282 | 1/2 | 80,718 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 148,252 | 3/4 | 140,141 | 3/4 | 132,030 | 3/4 | 123,919 | 3/4 | 115,182 | 3/4 | 103,615 | 3/4 | 92,041 | 3/4 | 80,478 |
| 6 | 6 | 6 | 6 | 6 | 148,083 | 6 | 139,972 | 6 | 131,861 | 6 | 123,750 | 6 | 114,941 | 6 | 103,373 | 6 | 91,800 | 6 | 80,238 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 147,914 | 1/4 | 139,803 | 1/4 | 131,692 | 1/4 | 123,581 | 1/4 | 114,700 | 1/4 | 103,132 | 1/4 | 91,559 | 1/4 | 79,999 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 147,745 | 1/2 | 139,634 | 1/2 | 131,523 | 1/2 | 123,412 | 1/2 | 114,460 | 1/2 | 102,891 | 1/2 | 91,318 | 1/2 | 79,759 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 147,576 | 3/4 | 139,465 | 3/4 | 131,354 | 3/4 | 123,243 | 3/4 | 114,219 | 3/4 | 102,650 | 3/4 | 91,077 | 3/4 | 79,519 |
| 7 | 7 | 7 | 7 | 7 | 147,407 | 7 | 139,296 | 7 | 131,185 | 7 | 123,074 | 7 | 113,979 | 7 | 102,409 | 7 | 90,836 | 7 | 79,280 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 147,238 | 1/4 | 139,127 | 1/4 | 131,016 | 1/4 | 122,905 | 1/4 | 113,738 | 1/4 | 102,168 | 1/4 | 90,595 | 1/4 | 79,040 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 147,069 | 1/2 | 138,958 | 1/2 | 130,847 | 1/2 | 122,736 | 1/2 | 113,498 | 1/2 | 101,927 | 1/2 | 90,354 | 1/2 | 78,800 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 146,900 | 3/4 | 138,789 | 3/4 | 130,678 | 3/4 | 122,567 | 3/4 | 113,257 | 3/4 | 101,686 | 3/4 | 90,112 | 3/4 | 78,561 |
| 8 | 8 | 8 | 8 | 8 | 146,731 | 8 | 138,620 | 8 | 130,509 | 8 | 122,398 | 8 | 113,017 | 8 | 101,445 | 8 | 89,871 | 8 | 78,321 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 146,562 | 1/4 | 138,451 | 1/4 | 130,340 | 1/4 | 122,229 | 1/4 | 112,776 | 1/4 | 101,203 | 1/4 | 89,630 | 1/4 | 78,081 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 146,393 | 1/2 | 138,282 | 1/2 | 130,171 | 1/2 | 122,060 | 1/2 | 112,536 | 1/2 | 100,962 | 1/2 | 89,389 | 1/2 | 77,842 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 146,224 | 3/4 | 138,113 | 3/4 | 130,002 | 3/4 | 121,892 | 3/4 | 112,294 | 3/4 | 100,721 | 3/4 | 89,148 | 3/4 | 77,602 |
| 9 | 9 | 9 | 9 | 9 | 146,055 | 9 | 137,944 | 9 | 129,833 | 9 | 121,723 | 9 | 112,053 | 9 | 100,480 | 9 | 88,907 | 9 | 77,362 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 145,886 | 1/4 | 137,775 | 1/4 | 129,664 | 1/4 | 121,555 | 1/4 | 111,812 | 1/4 | 100,239 | 1/4 | 88,666 | 1/4 | 77,123 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 145,717 | 1/2 | 137,606 | 1/2 | 129,495 | 1/2 | 121,386 | 1/2 | 111,571 | 1/2 | 99,998 | 1/2 | 88,425 | 1/2 | 76,883 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 145,548 | 3/4 | 137,437 | 3/4 | 129,326 | 3/4 | 121,218 | 3/4 | 111,330 | 3/4 | 99,757 | 3/4 | 88,184 | 3/4 | 76,643 |
| 10 | 10 | 10 | 10 | 10 | 145,379 | 10 | 137,268 | 10 | 129,157 | 10 | 121,050 | 10 | 111,089 | 10 | 99,516 | 10 | 87,942 | 10 | 76,404 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 145,210 | 1/4 | 137,099 | 1/4 | 128,988 | 1/4 | 120,881 | 1/4 | 110,848 | 1/4 | 99,275 | 1/4 | 87,701 | 1/4 | 76,164 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 145,041 | 1/2 | 136,930 | 1/2 | 128,819 | 1/2 | 120,713 | 1/2 | 110,607 | 1/2 | 99,033 | 1/2 | 87,460 | 1/2 | 75,924 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 144,872 | 3/4 | 136,761 | 3/4 | 128,650 | 3/4 | 120,544 | 3/4 | 110,366 | 3/4 | 98,792 | 3/4 | 87,219 | 3/4 | 75,685 |
| 11 | 11 | 11 | 11 | 11 | 144,703 | 11 | 136,592 | 11 | 128,481 | 11 | 120,376 | 11 | 110,124 | 11 | 98,551 | 11 | 86,978 | 11 | 75,445 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 144,534 | 1/4 | 136,423 | 1/4 | 128,312 | 1/4 | 120,208 | 1/4 | 109,883 | 1/4 | 98,310 | 1/4 | 86,737 | 1/4 | 75,205 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 144,365 | 1/2 | 136,254 | 1/2 | 128,143 | 1/2 | 120,039 | 1/2 | 109,642 | 1/2 | 98,069 | 1/2 | 86,496 | 1/2 | 74,966 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 144,196 | 3/4 | 136,085 | 3/4 | 127,974 | 3/4 | 119,871 | 3/4 | 109,401 | 3/4 | 97,828 | 3/4 | 86,255 | 3/4 | 74,725 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "CBC 1417"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 74,485 | 0 | 62,922 | 0 | 51,353 | 0 | 39,785 | 0 | 28,431 | 0 | 16,908 | 0 | 5,318 | 0 | | 0 | | 0 | |
| 1/4 | 74,244 | 1/4 | 62,681 | 1/4 | 51,112 | 1/4 | 39,544 | 1/4 | 28,197 | 1/4 | 16,667 | 1/4 | 5,078 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 74,004 | 1/2 | 62,440 | 1/2 | 50,871 | 1/2 | 39,303 | 1/2 | 27,963 | 1/2 | 16,425 | 1/2 | 4,838 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 73,764 | 3/4 | 62,199 | 3/4 | 50,630 | 3/4 | 39,062 | 3/4 | 27,729 | 3/4 | 16,184 | 3/4 | 4,599 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 1 | 73,523 | 1 | 61,958 | 1 | 50,389 | 1 | 38,820 | 1 | 27,495 | 1 | 15,942 | 1 | 4,360 | 1 | 1 | 1 | | 1 | |
| 1/4 | 73,283 | 1/4 | 61,717 | 1/4 | 50,148 | 1/4 | 38,579 | 1/4 | 27,260 | 1/4 | 15,700 | 1/4 | 4,122 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 73,042 | 1/2 | 61,476 | 1/2 | 49,907 | 1/2 | 38,338 | 1/2 | 27,026 | 1/2 | 15,459 | 1/2 | 3,883 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 72,802 | 3/4 | 61,235 | 3/4 | 49,666 | 3/4 | 38,097 | 3/4 | 26,792 | 3/4 | 15,217 | 3/4 | 3,646 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 2 | 72,561 | 2 | 60,994 | 2 | 49,425 | 2 | 37,856 | 2 | 26,558 | 2 | 14,976 | 2 | 3,409 | 2 | 2 | 2 | | 2 | |
| 1/4 | 72,321 | 1/4 | 60,753 | 1/4 | 49,184 | 1/4 | 37,615 | 1/4 | 26,323 | 1/4 | 14,734 | 1/4 | 3,172 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 72,081 | 1/2 | 60,512 | 1/2 | 48,943 | 1/2 | 37,374 | 1/2 | 26,089 | 1/2 | 14,492 | 1/2 | 2,935 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 71,840 | 3/4 | 60,271 | 3/4 | 48,702 | 3/4 | 37,133 | 3/4 | 25,848 | 3/4 | 14,251 | 3/4 | 2,715 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 3 | 71,599 | 3 | 60,030 | 3 | 48,461 | 3 | 36,892 | 3 | 25,606 | 3 | 14,009 | 3 | 2,494 | 3 | 3 | 3 | | 3 | |
| 1/4 | 71,358 | 1/4 | 59,789 | 1/4 | 48,220 | 1/4 | 36,651 | 1/4 | 25,364 | 1/4 | 13,768 | 1/4 | 2,273 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 71,116 | 1/2 | 59,548 | 1/2 | 47,979 | 1/2 | 36,410 | 1/2 | 25,123 | 1/2 | 13,526 | 1/2 | 2,052 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 70,875 | 3/4 | 59,307 | 3/4 | 47,738 | 3/4 | 36,169 | 3/4 | 24,881 | 3/4 | 13,284 | 3/4 | 1,871 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 4 | 70,634 | 4 | 59,066 | 4 | 47,497 | 4 | 35,928 | 4 | 24,640 | 4 | 13,043 | 4 | 1,690 | 4 | 4 | 4 | | 4 | |
| 1/4 | 70,393 | 1/4 | 58,825 | 1/4 | 47,256 | 1/4 | 35,687 | 1/4 | 24,398 | 1/4 | 12,801 | 1/4 | 1,509 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 70,152 | 1/2 | 58,584 | 1/2 | 47,015 | 1/2 | 35,446 | 1/2 | 24,156 | 1/2 | 12,560 | 1/2 | 1,328 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 69,911 | 3/4 | 58,343 | 3/4 | 46,774 | 3/4 | 35,212 | 3/4 | 23,915 | 3/4 | 12,318 | 3/4 | 1,187 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 5 | 69,670 | 5 | 58,102 | 5 | 46,533 | 5 | 34,979 | 5 | 23,673 | 5 | 12,077 | 5 | 1,046 | 5 | 5 | 5 | | 5 | |
| 1/4 | 69,429 | 1/4 | 57,861 | 1/4 | 46,292 | 1/4 | 34,745 | 1/4 | 23,432 | 1/4 | 11,835 | 1/4 | 905 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 69,188 | 1/2 | 57,620 | 1/2 | 46,051 | 1/2 | 34,511 | 1/2 | 23,190 | 1/2 | 11,593 | 1/2 | 764 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 68,947 | 3/4 | 57,379 | 3/4 | 45,810 | 3/4 | 34,277 | 3/4 | 22,948 | 3/4 | 11,352 | 3/4 | 663 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 6 | 68,706 | 6 | 57,138 | 6 | 45,569 | 6 | 34,043 | 6 | 22,707 | 6 | 11,110 | 6 | 563 | 6 | 6 | 6 | | 6 | |
| 1/4 | 68,465 | 1/4 | 56,897 | 1/4 | 45,328 | 1/4 | 33,809 | 1/4 | 22,465 | 1/4 | 10,869 | 1/4 | 462 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 68,224 | 1/2 | 56,656 | 1/2 | 45,087 | 1/2 | 33,575 | 1/2 | 22,224 | 1/2 | 10,627 | 1/2 | 361 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 67,983 | 3/4 | 56,415 | 3/4 | 44,846 | 3/4 | 33,342 | 3/4 | 21,982 | 3/4 | 10,385 | 3/4 | 301 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 7 | 67,742 | 7 | 56,174 | 7 | 44,605 | 7 | 33,108 | 7 | 21,740 | 7 | 10,144 | 7 | 241 | 7 | 7 | 7 | | 7 | |
| 1/4 | 67,501 | 1/4 | 55,933 | 1/4 | 44,364 | 1/4 | 32,874 | 1/4 | 21,499 | 1/4 | 9,902 | 1/4 | 180 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 67,260 | 1/2 | 55,692 | 1/2 | 44,123 | 1/2 | 32,640 | 1/2 | 21,257 | 1/2 | 9,661 | 1/2 | 120 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 67,019 | 3/4 | 55,451 | 3/4 | 43,882 | 3/4 | 32,406 | 3/4 | 21,016 | 3/4 | 9,419 | 3/4 | 100 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 8 | 66,778 | 8 | 55,210 | 8 | 43,641 | 8 | 32,172 | 8 | 20,774 | 8 | 9,177 | 8 | 80 | 8 | 8 | 8 | | 8 | |
| 1/4 | 66,537 | 1/4 | 54,968 | 1/4 | 43,400 | 1/4 | 31,938 | 1/4 | 20,532 | 1/4 | 8,936 | 1/4 | 59 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 66,296 | 1/2 | 54,727 | 1/2 | 43,159 | 1/2 | 31,705 | 1/2 | 20,291 | 1/2 | 8,694 | 1/2 | 39 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 66,055 | 3/4 | 54,486 | 3/4 | 42,918 | 3/4 | 31,471 | 3/4 | 20,049 | 3/4 | 8,453 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 9 | 65,814 | 9 | 54,245 | 9 | 42,677 | 9 | 31,237 | 9 | 19,808 | 9 | 8,211 | 9 | | 9 | 9 | 9 | | 9 | |
| 1/4 | 65,573 | 1/4 | 54,004 | 1/4 | 42,436 | 1/4 | 31,003 | 1/4 | 19,566 | 1/4 | 7,969 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 65,332 | 1/2 | 53,763 | 1/2 | 42,195 | 1/2 | 30,769 | 1/2 | 19,324 | 1/2 | 7,728 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 65,091 | 3/4 | 53,522 | 3/4 | 41,954 | 3/4 | 30,535 | 3/4 | 19,083 | 3/4 | 7,486 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 10 | 64,850 | 10 | 53,281 | 10 | 41,713 | 10 | 30,302 | 10 | 18,841 | 10 | 7,245 | 10 | | 10 | 10 | 10 | | 10 | |
| 1/4 | 64,609 | 1/4 | 53,040 | 1/4 | 41,472 | 1/4 | 30,068 | 1/4 | 18,600 | 1/4 | 7,004 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 64,368 | 1/2 | 52,799 | 1/2 | 41,231 | 1/2 | 29,834 | 1/2 | 18,358 | 1/2 | 6,762 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 64,127 | 3/4 | 52,558 | 3/4 | 40,990 | 3/4 | 29,600 | 3/4 | 18,116 | 3/4 | 6,521 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 11 | 63,886 | 11 | 52,317 | 11 | 40,749 | 11 | 29,366 | 11 | 17,875 | 11 | 6,281 | 11 | | 11 | 11 | 11 | | 11 | |
| 1/4 | 63,645 | 1/4 | 52,076 | 1/4 | 40,508 | 1/4 | 29,132 | 1/4 | 17,633 | 1/4 | 6,040 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 63,404 | 1/2 | 51,835 | 1/2 | 40,267 | 1/2 | 28,898 | 1/2 | 17,392 | 1/2 | 5,799 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 63,163 | 3/4 | 51,594 | 3/4 | 40,026 | 3/4 | 28,665 | 3/4 | 17,150 | 3/4 | 5,559 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2019 SW
CALCULATED: 11/04/2019 CL
PRINTED: 11/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "CBC 1417"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 190,933 | 0 | 180,093 | 0 | 166,666 | 0 | 153,238 | 0 | 139,811 | 0 | 126,384 | 0 | 112,956 | 0 | 99,529 | | |
| 1/4 | 1/4 | 1/4 | 190,909 | 1/4 | 179,813 | 1/4 | 166,386 | 1/4 | 152,959 | 1/4 | 139,531 | 1/4 | 126,104 | 1/4 | 112,677 | 1/4 | 99,249 | | |
| 1/2 | 1/2 | 1/2 | 190,839 | 1/2 | 179,533 | 1/2 | 166,106 | 1/2 | 152,679 | 1/2 | 139,252 | 1/2 | 125,824 | 1/2 | 112,397 | 1/2 | 98,970 | | |
| 3/4 | 3/4 | 3/4 | 190,769 | 3/4 | 179,254 | 3/4 | 165,826 | 3/4 | 152,399 | 3/4 | 138,972 | 3/4 | 125,545 | 3/4 | 112,117 | 3/4 | 98,690 | | |
| 1 | 1 | 1 | 190,700 | 1 | 178,974 | 1 | 165,547 | 1 | 152,119 | 1 | 138,692 | 1 | 125,265 | 1 | 111,838 | 1 | 98,410 | | |
| 1/4 | 1/4 | 1/4 | 190,630 | 1/4 | 178,694 | 1/4 | 165,267 | 1/4 | 151,840 | 1/4 | 138,412 | 1/4 | 124,985 | 1/4 | 111,558 | 1/4 | 98,130 | | |
| 1/2 | 1/2 | 1/2 | 190,513 | 1/2 | 178,415 | 1/2 | 164,987 | 1/2 | 151,560 | 1/2 | 138,133 | 1/2 | 124,705 | 1/2 | 111,278 | 1/2 | 97,851 | | |
| 3/4 | 3/4 | 3/4 | 190,396 | 3/4 | 178,135 | 3/4 | 164,707 | 3/4 | 151,280 | 3/4 | 137,853 | 3/4 | 124,426 | 3/4 | 110,998 | 3/4 | 97,571 | | |
| 2 | 2 | 2 | 190,280 | 2 | 177,855 | 2 | 164,428 | 2 | 151,000 | 2 | 137,573 | 2 | 124,146 | 2 | 110,719 | 2 | 97,291 | | |
| 1/4 | 1/4 | 1/4 | 190,163 | 1/4 | 177,575 | 1/4 | 164,148 | 1/4 | 150,721 | 1/4 | 137,293 | 1/4 | 123,866 | 1/4 | 110,439 | 1/4 | 97,012 | | |
| 1/2 | 1/2 | 1/2 | 190,000 | 1/2 | 177,296 | 1/2 | 163,868 | 1/2 | 150,441 | 1/2 | 137,014 | 1/2 | 123,586 | 1/2 | 110,159 | 1/2 | 96,732 | | |
| 3/4 | 3/4 | 3/4 | 189,837 | 3/4 | 177,016 | 3/4 | 163,589 | 3/4 | 150,161 | 3/4 | 136,734 | 3/4 | 123,307 | 3/4 | 109,879 | 3/4 | 96,452 | | |
| 3 | 3 | 3 | 189,674 | 3 | 176,736 | 3 | 163,309 | 3 | 149,882 | 3 | 136,454 | 3 | 123,027 | 3 | 109,600 | 3 | 96,172 | | |
| 1/4 | 1/4 | 1/4 | 189,511 | 1/4 | 176,456 | 1/4 | 163,029 | 1/4 | 149,602 | 1/4 | 136,174 | 1/4 | 122,747 | 1/4 | 109,320 | 1/4 | 95,893 | | |
| 1/2 | 1/2 | 1/2 | 189,301 | 1/2 | 176,177 | 1/2 | 162,749 | 1/2 | 149,322 | 1/2 | 135,895 | 1/2 | 122,467 | 1/2 | 109,040 | 1/2 | 95,613 | | |
| 3/4 | 3/4 | 3/4 | 189,091 | 3/4 | 175,897 | 3/4 | 162,470 | 3/4 | 149,042 | 3/4 | 135,615 | 3/4 | 122,188 | 3/4 | 108,760 | 3/4 | 95,333 | | |
| 4 | 4 | 4 | 188,881 | 4 | 175,617 | 4 | 162,190 | 4 | 148,763 | 4 | 135,335 | 4 | 121,908 | 4 | 108,481 | 4 | 95,053 | | |
| 1/4 | 1/4 | 1/4 | 188,671 | 1/4 | 175,337 | 1/4 | 161,910 | 1/4 | 148,483 | 1/4 | 135,056 | 1/4 | 121,628 | 1/4 | 108,201 | 1/4 | 94,774 | | |
| 1/2 | 1/2 | 1/2 | 188,415 | 1/2 | 175,058 | 1/2 | 161,630 | 1/2 | 148,203 | 1/2 | 134,776 | 1/2 | 121,349 | 1/2 | 107,921 | 1/2 | 94,494 | | |
| 3/4 | 3/4 | 3/4 | 188,159 | 3/4 | 174,778 | 3/4 | 161,351 | 3/4 | 147,923 | 3/4 | 134,496 | 3/4 | 121,069 | 3/4 | 107,641 | 3/4 | 94,214 | | |
| 5 | 5 | 5 | 187,902 | 5 | 174,498 | 5 | 161,071 | 5 | 147,644 | 5 | 134,216 | 5 | 120,789 | 5 | 107,362 | 5 | 93,934 | | |
| 1/4 | 1/4 | 1/4 | 187,646 | 1/4 | 174,218 | 1/4 | 160,791 | 1/4 | 147,364 | 1/4 | 133,937 | 1/4 | 120,509 | 1/4 | 107,082 | 1/4 | 93,655 | | |
| 1/2 | 1/2 | 1/2 | 187,366 | 1/2 | 173,939 | 1/2 | 160,511 | 1/2 | 147,084 | 1/2 | 133,657 | 1/2 | 120,230 | 1/2 | 106,802 | 1/2 | 93,375 | | |
| 3/4 | 3/4 | 3/4 | 187,086 | 3/4 | 173,659 | 3/4 | 160,232 | 3/4 | 146,804 | 3/4 | 133,377 | 3/4 | 119,950 | 3/4 | 106,523 | 3/4 | 93,095 | | |
| 6 | 6 | 6 | 186,807 | 6 | 173,379 | 6 | 159,952 | 6 | 146,525 | 6 | 133,097 | 6 | 119,670 | 6 | 106,243 | 6 | 92,816 | | |
| 1/4 | 1/4 | 1/4 | 186,527 | 1/4 | 173,100 | 1/4 | 159,672 | 1/4 | 146,245 | 1/4 | 132,818 | 1/4 | 119,390 | 1/4 | 105,963 | 1/4 | 92,536 | | |
| 1/2 | 1/2 | 1/2 | 186,247 | 1/2 | 172,820 | 1/2 | 159,393 | 1/2 | 145,965 | 1/2 | 132,538 | 1/2 | 119,111 | 1/2 | 105,683 | 1/2 | 92,256 | | |
| 3/4 | 3/4 | 3/4 | 185,967 | 3/4 | 172,540 | 3/4 | 159,113 | 3/4 | 145,685 | 3/4 | 132,258 | 3/4 | 118,831 | 3/4 | 105,404 | 3/4 | 91,976 | | |
| 7 | 7 | 7 | 185,688 | 7 | 172,260 | 7 | 158,833 | 7 | 145,406 | 7 | 131,978 | 7 | 118,551 | 7 | 105,124 | 7 | 91,697 | | |
| 1/4 | 1/4 | 1/4 | 185,408 | 1/4 | 171,981 | 1/4 | 158,553 | 1/4 | 145,126 | 1/4 | 131,699 | 1/4 | 118,271 | 1/4 | 104,844 | 1/4 | 91,417 | | |
| 1/2 | 1/2 | 1/2 | 185,128 | 1/2 | 171,701 | 1/2 | 158,274 | 1/2 | 144,846 | 1/2 | 131,419 | 1/2 | 117,992 | 1/2 | 104,564 | 1/2 | 91,137 | | |
| 3/4 | 3/4 | 3/4 | 184,848 | 3/4 | 171,421 | 3/4 | 157,994 | 3/4 | 144,567 | 3/4 | 131,139 | 3/4 | 117,712 | 3/4 | 104,285 | 3/4 | 90,857 | | |
| 8 | 8 | 8 | 184,569 | 8 | 171,141 | 8 | 157,714 | 8 | 144,287 | 8 | 130,860 | 8 | 117,432 | 8 | 104,005 | 8 | 90,578 | | |
| 1/4 | 1/4 | 1/4 | 184,289 | 1/4 | 170,862 | 1/4 | 157,434 | 1/4 | 144,007 | 1/4 | 130,580 | 1/4 | 117,152 | 1/4 | 103,725 | 1/4 | 90,298 | | |
| 1/2 | 1/2 | 1/2 | 184,009 | 1/2 | 170,582 | 1/2 | 157,155 | 1/2 | 143,727 | 1/2 | 130,300 | 1/2 | 116,873 | 1/2 | 103,445 | 1/2 | 90,018 | | |
| 3/4 | 3/4 | 3/4 | 183,729 | 3/4 | 170,302 | 3/4 | 156,875 | 3/4 | 143,448 | 3/4 | 130,020 | 3/4 | 116,593 | 3/4 | 103,166 | 3/4 | 89,738 | | |
| 9 | 9 | 9 | 183,450 | 9 | 170,022 | 9 | 156,595 | 9 | 143,168 | 9 | 129,741 | 9 | 116,313 | 9 | 102,886 | 9 | 89,459 | | |
| 1/4 | 1/4 | 1/4 | 183,170 | 1/4 | 169,743 | 1/4 | 156,315 | 1/4 | 142,888 | 1/4 | 129,461 | 1/4 | 116,034 | 1/4 | 102,606 | 1/4 | 89,179 | | |
| 1/2 | 1/2 | 1/2 | 182,890 | 1/2 | 169,463 | 1/2 | 156,036 | 1/2 | 142,608 | 1/2 | 129,181 | 1/2 | 115,754 | 1/2 | 102,327 | 1/2 | 88,899 | | |
| 3/4 | 3/4 | 3/4 | 182,611 | 3/4 | 169,183 | 3/4 | 155,756 | 3/4 | 142,329 | 3/4 | 128,901 | 3/4 | 115,474 | 3/4 | 102,047 | 3/4 | 88,619 | | |
| 10 | 10 | 10 | 182,331 | 10 | 168,904 | 10 | 155,476 | 10 | 142,049 | 10 | 128,622 | 10 | 115,194 | 10 | 101,767 | 10 | 88,340 | | |
| 1/4 | 1/4 | 1/4 | 182,051 | 1/4 | 168,624 | 1/4 | 155,196 | 1/4 | 141,769 | 1/4 | 128,342 | 1/4 | 114,915 | 1/4 | 101,487 | 1/4 | 88,060 | | |
| 1/2 | 1/2 | 1/2 | 181,771 | 1/2 | 168,344 | 1/2 | 154,917 | 1/2 | 141,489 | 1/2 | 128,062 | 1/2 | 114,635 | 1/2 | 101,208 | 1/2 | 87,780 | | |
| 3/4 | 3/4 | 3/4 | 181,492 | 3/4 | 168,064 | 3/4 | 154,637 | 3/4 | 141,210 | 3/4 | 127,782 | 3/4 | 114,355 | 3/4 | 100,928 | 3/4 | 87,501 | | |
| 11 | 11 | 11 | 181,212 | 11 | 167,785 | 11 | 154,357 | 11 | 140,930 | 11 | 127,503 | 11 | 114,075 | 11 | 100,648 | 11 | 87,221 | | |
| 1/4 | 1/4 | 1/4 | 180,932 | 1/4 | 167,505 | 1/4 | 154,078 | 1/4 | 140,650 | 1/4 | 127,223 | 1/4 | 113,796 | 1/4 | 100,368 | 1/4 | 86,941 | | |
| 1/2 | 1/2 | 1/2 | 180,652 | 1/2 | 167,225 | 1/2 | 153,798 | 1/2 | 140,371 | 1/2 | 126,943 | 1/2 | 113,516 | 1/2 | 100,089 | 1/2 | 86,661 | | |
| 3/4 | 3/4 | 3/4 | 190,956 | 3/4 | 180,373 | 3/4 | 166,945 | 3/4 | 153,518 | 3/4 | 140,091 | 3/4 | 126,663 | 3/4 | 113,236 | 3/4 | 99,809 | 3/4 | 86,382 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "CBC 1417"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 86,102 | 0 | 72,675 | 0 | 59,247 | 0 | 45,820 | 0 | 32,679 | 0 | 19,292 | 0 | 5,874 | 0 | | 0 | | 0 | |
| 1/4 | 85,822 | 1/4 | 72,395 | 1/4 | 58,968 | 1/4 | 45,540 | 1/4 | 32,407 | 1/4 | 19,012 | 1/4 | 5,596 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 85,542 | 1/2 | 72,115 | 1/2 | 58,688 | 1/2 | 45,261 | 1/2 | 32,135 | 1/2 | 18,732 | 1/2 | 5,319 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 85,263 | 3/4 | 71,835 | 3/4 | 58,408 | 3/4 | 44,981 | 3/4 | 31,863 | 3/4 | 18,452 | 3/4 | 5,043 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 1 | 84,983 | 1 | 71,556 | 1 | 58,128 | 1 | 44,701 | 1 | 31,592 | 1 | 18,173 | 1 | 4,766 | 1 | 1 | 1 | | 1 | 1 |
| 1/4 | 84,703 | 1/4 | 71,276 | 1/4 | 57,849 | 1/4 | 44,421 | 1/4 | 31,320 | 1/4 | 17,893 | 1/4 | 4,490 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 84,423 | 1/2 | 70,996 | 1/2 | 57,569 | 1/2 | 44,142 | 1/2 | 31,040 | 1/2 | 17,613 | 1/2 | 4,215 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 84,144 | 3/4 | 70,716 | 3/4 | 57,289 | 3/4 | 43,862 | 3/4 | 30,760 | 3/4 | 17,333 | 3/4 | 3,941 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 2 | 83,864 | 2 | 70,437 | 2 | 57,009 | 2 | 43,582 | 2 | 30,481 | 2 | 17,054 | 2 | 3,667 | 2 | 2 | 2 | | 2 | 2 |
| 1/4 | 83,584 | 1/4 | 70,157 | 1/4 | 56,730 | 1/4 | 43,302 | 1/4 | 30,201 | 1/4 | 16,774 | 1/4 | 3,393 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 83,305 | 1/2 | 69,877 | 1/2 | 56,450 | 1/2 | 43,023 | 1/2 | 29,921 | 1/2 | 16,494 | 1/2 | 3,137 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 83,025 | 3/4 | 69,597 | 3/4 | 56,170 | 3/4 | 42,743 | 3/4 | 29,641 | 3/4 | 16,215 | 3/4 | 2,882 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 3 | 82,745 | 3 | 69,318 | 3 | 55,890 | 3 | 42,463 | 3 | 29,362 | 3 | 15,935 | 3 | 2,626 | 3 | 3 | 3 | | 3 | 3 |
| 1/4 | 82,465 | 1/4 | 69,038 | 1/4 | 55,611 | 1/4 | 42,183 | 1/4 | 29,082 | 1/4 | 15,655 | 1/4 | 2,370 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 82,186 | 1/2 | 68,758 | 1/2 | 55,331 | 1/2 | 41,912 | 1/2 | 28,802 | 1/2 | 15,375 | 1/2 | 2,161 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 81,906 | 3/4 | 68,479 | 3/4 | 55,051 | 3/4 | 41,640 | 3/4 | 28,522 | 3/4 | 15,096 | 3/4 | 1,951 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 4 | 81,626 | 4 | 68,199 | 4 | 54,772 | 4 | 41,368 | 4 | 28,243 | 4 | 14,816 | 4 | 1,741 | 4 | 4 | 4 | | 4 | 4 |
| 1/4 | 81,346 | 1/4 | 67,919 | 1/4 | 54,492 | 1/4 | 41,096 | 1/4 | 27,963 | 1/4 | 14,536 | 1/4 | 1,531 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 81,067 | 1/2 | 67,639 | 1/2 | 54,212 | 1/2 | 40,824 | 1/2 | 27,683 | 1/2 | 14,256 | 1/2 | 1,368 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 80,787 | 3/4 | 67,360 | 3/4 | 53,932 | 3/4 | 40,553 | 3/4 | 27,404 | 3/4 | 13,977 | 3/4 | 1,205 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 5 | 80,507 | 5 | 67,080 | 5 | 53,653 | 5 | 40,281 | 5 | 27,124 | 5 | 13,697 | 5 | 1,042 | 5 | 5 | 5 | | 5 | 5 |
| 1/4 | 80,227 | 1/4 | 66,800 | 1/4 | 53,373 | 1/4 | 40,010 | 1/4 | 26,844 | 1/4 | 13,417 | 1/4 | 878 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 79,948 | 1/2 | 66,520 | 1/2 | 53,093 | 1/2 | 39,738 | 1/2 | 26,564 | 1/2 | 13,138 | 1/2 | 762 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 79,668 | 3/4 | 66,241 | 3/4 | 52,813 | 3/4 | 39,467 | 3/4 | 26,285 | 3/4 | 12,858 | 3/4 | 645 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 6 | 79,388 | 6 | 65,961 | 6 | 52,534 | 6 | 39,195 | 6 | 26,005 | 6 | 12,578 | 6 | 529 | 6 | 6 | 6 | | 6 | 6 |
| 1/4 | 79,108 | 1/4 | 65,681 | 1/4 | 52,254 | 1/4 | 38,924 | 1/4 | 25,725 | 1/4 | 12,298 | 1/4 | 412 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 78,829 | 1/2 | 65,401 | 1/2 | 51,974 | 1/2 | 38,652 | 1/2 | 25,445 | 1/2 | 12,019 | 1/2 | 342 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 78,549 | 3/4 | 65,122 | 3/4 | 51,694 | 3/4 | 38,381 | 3/4 | 25,166 | 3/4 | 11,739 | 3/4 | 272 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 7 | 78,269 | 7 | 64,842 | 7 | 51,415 | 7 | 38,109 | 7 | 24,886 | 7 | 11,459 | 7 | 202 | 7 | 7 | 7 | | 7 | 7 |
| 1/4 | 77,990 | 1/4 | 64,562 | 1/4 | 51,135 | 1/4 | 37,838 | 1/4 | 24,606 | 1/4 | 11,179 | 1/4 | 133 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 77,710 | 1/2 | 64,283 | 1/2 | 50,855 | 1/2 | 37,566 | 1/2 | 24,327 | 1/2 | 10,900 | 1/2 | 109 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 77,430 | 3/4 | 64,003 | 3/4 | 50,575 | 3/4 | 37,295 | 3/4 | 24,047 | 3/4 | 10,620 | 3/4 | 86 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 8 | 77,150 | 8 | 63,723 | 8 | 50,296 | 8 | 37,023 | 8 | 23,767 | 8 | 10,340 | 8 | 63 | 8 | 8 | 8 | | 8 | 8 |
| 1/4 | 76,871 | 1/4 | 63,443 | 1/4 | 50,016 | 1/4 | 36,752 | 1/4 | 23,487 | 1/4 | 10,061 | 1/4 | 39 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 76,591 | 1/2 | 63,164 | 1/2 | 49,736 | 1/2 | 36,480 | 1/2 | 23,208 | 1/2 | 9,781 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 76,311 | 3/4 | 62,884 | 3/4 | 49,457 | 3/4 | 36,209 | 3/4 | 22,928 | 3/4 | 9,501 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 9 | 76,031 | 9 | 62,604 | 9 | 49,177 | 9 | 35,937 | 9 | 22,648 | 9 | 9,221 | 9 | | 9 | 9 | 9 | | 9 | 9 |
| 1/4 | 75,752 | 1/4 | 62,324 | 1/4 | 48,897 | 1/4 | 35,665 | 1/4 | 22,369 | 1/4 | 8,942 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 75,472 | 1/2 | 62,045 | 1/2 | 48,617 | 1/2 | 35,394 | 1/2 | 22,089 | 1/2 | 8,662 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 75,192 | 3/4 | 61,765 | 3/4 | 48,338 | 3/4 | 35,122 | 3/4 | 21,809 | 3/4 | 8,383 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 10 | 74,912 | 10 | 61,485 | 10 | 48,058 | 10 | 34,851 | 10 | 21,529 | 10 | 8,103 | 10 | | 10 | 10 | 10 | | 10 | 10 |
| 1/4 | 74,633 | 1/4 | 61,205 | 1/4 | 47,778 | 1/4 | 34,579 | 1/4 | 21,250 | 1/4 | 7,824 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 74,353 | 1/2 | 60,926 | 1/2 | 47,498 | 1/2 | 34,308 | 1/2 | 20,970 | 1/2 | 7,545 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 74,073 | 3/4 | 60,646 | 3/4 | 47,219 | 3/4 | 34,036 | 3/4 | 20,690 | 3/4 | 7,266 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 11 | 73,794 | 11 | 60,366 | 11 | 46,939 | 11 | 33,765 | 11 | 20,410 | 11 | 6,987 | 11 | | 11 | 11 | 11 | | 11 | 11 |
| 1/4 | 73,514 | 1/4 | 60,086 | 1/4 | 46,659 | 1/4 | 33,493 | 1/4 | 20,131 | 1/4 | 6,708 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 73,234 | 1/2 | 59,807 | 1/2 | 46,379 | 1/2 | 33,222 | 1/2 | 19,851 | 1/2 | 6,430 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 72,954 | 3/4 | 59,527 | 3/4 | 46,100 | 3/4 | 32,950 | 3/4 | 19,571 | 3/4 | 6,152 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2019 SW
CALCULATED: 11/04/2019 CL
PRINTED: 11/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

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



BARGE "CBC 1417"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 170,728 | 0 | 161,051 | 0 | 149,063 | 0 | 137,076 | 0 | 125,088 | 0 | 113,101 | 0 | 101,113 | 0 | 89,126 | 0 | 89,126 |
| 1/4 | 1/4 | 1/4 | 170,707 | 1/4 | 160,801 | 1/4 | 148,813 | 1/4 | 136,826 | 1/4 | 124,838 | 1/4 | 112,851 | 1/4 | 100,863 | 1/4 | 88,876 | 1/4 | 88,876 |
| 1/2 | 1/2 | 1/2 | 170,645 | 1/2 | 160,551 | 1/2 | 148,564 | 1/2 | 136,576 | 1/2 | 124,589 | 1/2 | 112,601 | 1/2 | 100,614 | 1/2 | 88,626 | 1/2 | 88,626 |
| 3/4 | 3/4 | 3/4 | 170,582 | 3/4 | 160,301 | 3/4 | 148,314 | 3/4 | 136,326 | 3/4 | 124,339 | 3/4 | 112,351 | 3/4 | 100,364 | 3/4 | 88,376 | 3/4 | 88,376 |
| 1 | 1 | 1 | 170,520 | 1 | 160,052 | 1 | 148,064 | 1 | 136,077 | 1 | 124,089 | 1 | 112,102 | 1 | 100,114 | 1 | 88,127 | 1 | 88,127 |
| 1/4 | 1/4 | 1/4 | 170,457 | 1/4 | 159,802 | 1/4 | 147,814 | 1/4 | 135,827 | 1/4 | 123,839 | 1/4 | 111,852 | 1/4 | 99,864 | 1/4 | 87,877 | 1/4 | 87,877 |
| 1/2 | 1/2 | 1/2 | 170,353 | 1/2 | 159,552 | 1/2 | 147,565 | 1/2 | 135,577 | 1/2 | 123,590 | 1/2 | 111,602 | 1/2 | 99,615 | 1/2 | 87,627 | 1/2 | 87,627 |
| 3/4 | 3/4 | 3/4 | 170,249 | 3/4 | 159,302 | 3/4 | 147,315 | 3/4 | 135,327 | 3/4 | 123,340 | 3/4 | 111,352 | 3/4 | 99,365 | 3/4 | 87,378 | 3/4 | 87,378 |
| 2 | 2 | 2 | 170,145 | 2 | 159,053 | 2 | 147,065 | 2 | 135,078 | 2 | 123,090 | 2 | 111,103 | 2 | 99,115 | 2 | 87,128 | 2 | 87,128 |
| 1/4 | 1/4 | 1/4 | 170,041 | 1/4 | 158,803 | 1/4 | 146,815 | 1/4 | 134,828 | 1/4 | 122,840 | 1/4 | 110,853 | 1/4 | 98,866 | 1/4 | 86,878 | 1/4 | 86,878 |
| 1/2 | 1/2 | 1/2 | 169,895 | 1/2 | 158,553 | 1/2 | 146,566 | 1/2 | 134,578 | 1/2 | 122,591 | 1/2 | 110,603 | 1/2 | 98,616 | 1/2 | 86,628 | 1/2 | 86,628 |
| 3/4 | 3/4 | 3/4 | 169,750 | 3/4 | 158,303 | 3/4 | 146,316 | 3/4 | 134,328 | 3/4 | 122,341 | 3/4 | 110,354 | 3/4 | 98,366 | 3/4 | 86,379 | 3/4 | 86,379 |
| 3 | 3 | 3 | 169,604 | 3 | 158,054 | 3 | 146,066 | 3 | 134,079 | 3 | 122,091 | 3 | 110,104 | 3 | 98,116 | 3 | 86,129 | 3 | 86,129 |
| 1/4 | 1/4 | 1/4 | 169,458 | 1/4 | 157,804 | 1/4 | 145,816 | 1/4 | 133,829 | 1/4 | 121,842 | 1/4 | 109,854 | 1/4 | 97,867 | 1/4 | 85,879 | 1/4 | 85,879 |
| 1/2 | 1/2 | 1/2 | 169,271 | 1/2 | 157,554 | 1/2 | 145,567 | 1/2 | 133,579 | 1/2 | 121,592 | 1/2 | 109,604 | 1/2 | 97,617 | 1/2 | 85,629 | 1/2 | 85,629 |
| 3/4 | 3/4 | 3/4 | 169,084 | 3/4 | 157,304 | 3/4 | 145,317 | 3/4 | 133,330 | 3/4 | 121,342 | 3/4 | 109,355 | 3/4 | 97,367 | 3/4 | 85,380 | 3/4 | 85,380 |
| 4 | 4 | 4 | 168,897 | 4 | 157,055 | 4 | 145,067 | 4 | 133,080 | 4 | 121,092 | 4 | 109,105 | 4 | 97,117 | 4 | 85,130 | 4 | 85,130 |
| 1/4 | 1/4 | 1/4 | 168,709 | 1/4 | 156,805 | 1/4 | 144,818 | 1/4 | 132,830 | 1/4 | 120,843 | 1/4 | 108,855 | 1/4 | 96,868 | 1/4 | 84,880 | 1/4 | 84,880 |
| 1/2 | 1/2 | 1/2 | 168,480 | 1/2 | 156,555 | 1/2 | 144,568 | 1/2 | 132,580 | 1/2 | 120,593 | 1/2 | 108,605 | 1/2 | 96,618 | 1/2 | 84,630 | 1/2 | 84,630 |
| 3/4 | 3/4 | 3/4 | 168,251 | 3/4 | 156,306 | 3/4 | 144,318 | 3/4 | 132,331 | 3/4 | 120,343 | 3/4 | 108,356 | 3/4 | 96,368 | 3/4 | 84,381 | 3/4 | 84,381 |
| 5 | 5 | 5 | 168,022 | 5 | 156,056 | 5 | 144,068 | 5 | 132,081 | 5 | 120,093 | 5 | 108,106 | 5 | 96,118 | 5 | 84,131 | 5 | 84,131 |
| 1/4 | 1/4 | 1/4 | 167,794 | 1/4 | 155,806 | 1/4 | 143,819 | 1/4 | 131,831 | 1/4 | 119,844 | 1/4 | 107,856 | 1/4 | 95,869 | 1/4 | 83,881 | 1/4 | 83,881 |
| 1/2 | 1/2 | 1/2 | 167,544 | 1/2 | 155,556 | 1/2 | 143,569 | 1/2 | 131,581 | 1/2 | 119,594 | 1/2 | 107,606 | 1/2 | 95,619 | 1/2 | 83,631 | 1/2 | 83,631 |
| 3/4 | 3/4 | 3/4 | 167,294 | 3/4 | 155,307 | 3/4 | 143,319 | 3/4 | 131,332 | 3/4 | 119,344 | 3/4 | 107,357 | 3/4 | 95,369 | 3/4 | 83,382 | 3/4 | 83,382 |
| 6 | 6 | 6 | 167,044 | 6 | 155,057 | 6 | 143,069 | 6 | 131,082 | 6 | 119,094 | 6 | 107,107 | 6 | 95,119 | 6 | 83,132 | 6 | 83,132 |
| 1/4 | 1/4 | 1/4 | 166,795 | 1/4 | 154,807 | 1/4 | 142,820 | 1/4 | 130,832 | 1/4 | 118,845 | 1/4 | 106,857 | 1/4 | 94,870 | 1/4 | 82,882 | 1/4 | 82,882 |
| 1/2 | 1/2 | 1/2 | 166,545 | 1/2 | 154,557 | 1/2 | 142,570 | 1/2 | 130,582 | 1/2 | 118,595 | 1/2 | 106,607 | 1/2 | 94,620 | 1/2 | 82,632 | 1/2 | 82,632 |
| 3/4 | 3/4 | 3/4 | 166,295 | 3/4 | 154,308 | 3/4 | 142,320 | 3/4 | 130,333 | 3/4 | 118,345 | 3/4 | 106,358 | 3/4 | 94,370 | 3/4 | 82,383 | 3/4 | 82,383 |
| 7 | 7 | 7 | 166,045 | 7 | 154,058 | 7 | 142,070 | 7 | 130,083 | 7 | 118,095 | 7 | 106,108 | 7 | 94,120 | 7 | 82,133 | 7 | 82,133 |
| 1/4 | 1/4 | 1/4 | 165,796 | 1/4 | 153,808 | 1/4 | 141,821 | 1/4 | 129,833 | 1/4 | 117,846 | 1/4 | 105,858 | 1/4 | 93,871 | 1/4 | 81,883 | 1/4 | 81,883 |
| 1/2 | 1/2 | 1/2 | 165,546 | 1/2 | 153,558 | 1/2 | 141,571 | 1/2 | 129,583 | 1/2 | 117,596 | 1/2 | 105,608 | 1/2 | 93,621 | 1/2 | 81,634 | 1/2 | 81,634 |
| 3/4 | 3/4 | 3/4 | 165,296 | 3/4 | 153,309 | 3/4 | 141,321 | 3/4 | 129,334 | 3/4 | 117,346 | 3/4 | 105,359 | 3/4 | 93,371 | 3/4 | 81,384 | 3/4 | 81,384 |
| 8 | 8 | 8 | 165,046 | 8 | 153,059 | 8 | 141,071 | 8 | 129,084 | 8 | 117,096 | 8 | 105,109 | 8 | 93,122 | 8 | 81,134 | 8 | 81,134 |
| 1/4 | 1/4 | 1/4 | 164,797 | 1/4 | 152,809 | 1/4 | 140,822 | 1/4 | 128,834 | 1/4 | 116,847 | 1/4 | 104,859 | 1/4 | 92,872 | 1/4 | 80,884 | 1/4 | 80,884 |
| 1/2 | 1/2 | 1/2 | 164,547 | 1/2 | 152,559 | 1/2 | 140,572 | 1/2 | 128,584 | 1/2 | 116,597 | 1/2 | 104,610 | 1/2 | 92,622 | 1/2 | 80,635 | 1/2 | 80,635 |
| 3/4 | 3/4 | 3/4 | 164,297 | 3/4 | 152,310 | 3/4 | 140,322 | 3/4 | 128,335 | 3/4 | 116,347 | 3/4 | 104,360 | 3/4 | 92,372 | 3/4 | 80,385 | 3/4 | 80,385 |
| 9 | 9 | 9 | 164,047 | 9 | 152,060 | 9 | 140,072 | 9 | 128,085 | 9 | 116,098 | 9 | 104,110 | 9 | 92,123 | 9 | 80,135 | 9 | 80,135 |
| 1/4 | 1/4 | 1/4 | 163,798 | 1/4 | 151,810 | 1/4 | 139,823 | 1/4 | 127,835 | 1/4 | 115,848 | 1/4 | 103,860 | 1/4 | 91,873 | 1/4 | 79,885 | 1/4 | 79,885 |
| 1/2 | 1/2 | 1/2 | 163,548 | 1/2 | 151,560 | 1/2 | 139,573 | 1/2 | 127,586 | 1/2 | 115,598 | 1/2 | 103,611 | 1/2 | 91,623 | 1/2 | 79,636 | 1/2 | 79,636 |
| 3/4 | 3/4 | 3/4 | 163,298 | 3/4 | 151,311 | 3/4 | 139,323 | 3/4 | 127,336 | 3/4 | 115,348 | 3/4 | 103,361 | 3/4 | 91,373 | 3/4 | 79,386 | 3/4 | 79,386 |
| 10 | 10 | 10 | 163,048 | 10 | 151,061 | 10 | 139,074 | 10 | 127,086 | 10 | 115,099 | 10 | 103,111 | 10 | 91,124 | 10 | 79,136 | 10 | 79,136 |
| 1/4 | 1/4 | 1/4 | 162,799 | 1/4 | 150,811 | 1/4 | 138,824 | 1/4 | 126,836 | 1/4 | 114,849 | 1/4 | 102,861 | 1/4 | 90,874 | 1/4 | 78,886 | 1/4 | 78,886 |
| 1/2 | 1/2 | 1/2 | 162,549 | 1/2 | 150,562 | 1/2 | 138,574 | 1/2 | 126,587 | 1/2 | 114,599 | 1/2 | 102,612 | 1/2 | 90,624 | 1/2 | 78,637 | 1/2 | 78,637 |
| 3/4 | 3/4 | 3/4 | 162,299 | 3/4 | 150,312 | 3/4 | 138,324 | 3/4 | 126,337 | 3/4 | 114,349 | 3/4 | 102,362 | 3/4 | 90,374 | 3/4 | 78,387 | 3/4 | 78,387 |
| 11 | 11 | 11 | 162,050 | 11 | 150,062 | 11 | 138,075 | 11 | 126,087 | 11 | 114,100 | 11 | 102,112 | 11 | 90,125 | 11 | 78,137 | 11 | 78,137 |
| 1/4 | 1/4 | 1/4 | 161,800 | 1/4 | 149,812 | 1/4 | 137,825 | 1/4 | 125,837 | 1/4 | 113,850 | 1/4 | 101,862 | 1/4 | 89,875 | 1/4 | 77,887 | 1/4 | 77,887 |
| 1/2 | 1/2 | 1/2 | 161,550 | 1/2 | 149,563 | 1/2 | 137,575 | 1/2 | 125,588 | 1/2 | 113,600 | 1/2 | 101,613 | 1/2 | 89,625 | 1/2 | 77,638 | 1/2 | 77,638 |
| 3/4 | 3/4 | 3/4 | 170,749 | 3/4 | 161,300 | 3/4 | 149,313 | 3/4 | 137,325 | 3/4 | 125,338 | 3/4 | 113,350 | 3/4 | 101,363 | 3/4 | 89,375 | 3/4 | 89,375 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "CBC 1417"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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 | 77,138 | 0 | 65,151 | 0 | 53,163 | 0 | 41,176 | 0 | 29,211 | 0 | 17,227 | 0 | 5,248 | 0 | | 0 | | 0 | |
| 1/4 | 76,888 | 1/4 | 64,901 | 1/4 | 52,913 | 1/4 | 40,926 | 1/4 | 28,962 | 1/4 | 16,977 | 1/4 | 5,000 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 76,639 | 1/2 | 64,651 | 1/2 | 52,664 | 1/2 | 40,676 | 1/2 | 28,712 | 1/2 | 16,728 | 1/2 | 4,753 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 76,389 | 3/4 | 64,401 | 3/4 | 52,414 | 3/4 | 40,427 | 3/4 | 28,463 | 3/4 | 16,478 | 3/4 | 4,506 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 76,139 | 1 | 64,152 | 1 | 52,164 | 1 | 40,177 | 1 | 28,213 | 1 | 16,228 | 1 | 4,259 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 75,890 | 1/4 | 63,902 | 1/4 | 51,915 | 1/4 | 39,927 | 1/4 | 27,964 | 1/4 | 15,978 | 1/4 | 4,013 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 75,640 | 1/2 | 63,652 | 1/2 | 51,665 | 1/2 | 39,677 | 1/2 | 27,715 | 1/2 | 15,729 | 1/2 | 3,768 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 75,390 | 3/4 | 63,403 | 3/4 | 51,415 | 3/4 | 39,428 | 3/4 | 27,465 | 3/4 | 15,479 | 3/4 | 3,523 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 75,140 | 2 | 63,153 | 2 | 51,165 | 2 | 39,178 | 2 | 27,216 | 2 | 15,229 | 2 | 3,278 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 74,891 | 1/4 | 62,903 | 1/4 | 50,916 | 1/4 | 38,928 | 1/4 | 26,967 | 1/4 | 14,980 | 1/4 | 3,033 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 74,641 | 1/2 | 62,653 | 1/2 | 50,666 | 1/2 | 38,678 | 1/2 | 26,717 | 1/2 | 14,730 | 1/2 | 2,805 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 74,391 | 3/4 | 62,404 | 3/4 | 50,416 | 3/4 | 38,429 | 3/4 | 26,467 | 3/4 | 14,480 | 3/4 | 2,577 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 74,141 | 3 | 62,154 | 3 | 50,166 | 3 | 38,179 | 3 | 26,217 | 3 | 14,230 | 3 | 2,349 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 73,892 | 1/4 | 61,904 | 1/4 | 49,917 | 1/4 | 37,929 | 1/4 | 25,968 | 1/4 | 13,981 | 1/4 | 2,120 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 73,642 | 1/2 | 61,654 | 1/2 | 49,667 | 1/2 | 37,679 | 1/2 | 25,718 | 1/2 | 13,731 | 1/2 | 1,933 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 73,392 | 3/4 | 61,405 | 3/4 | 49,417 | 3/4 | 37,430 | 3/4 | 25,468 | 3/4 | 13,481 | 3/4 | 1,746 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 73,142 | 4 | 61,155 | 4 | 49,167 | 4 | 37,180 | 4 | 25,218 | 4 | 13,231 | 4 | 1,559 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 72,893 | 1/4 | 60,905 | 1/4 | 48,918 | 1/4 | 36,930 | 1/4 | 24,969 | 1/4 | 12,982 | 1/4 | 1,371 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 72,643 | 1/2 | 60,655 | 1/2 | 48,668 | 1/2 | 36,681 | 1/2 | 24,719 | 1/2 | 12,732 | 1/2 | 1,226 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 72,393 | 3/4 | 60,406 | 3/4 | 48,418 | 3/4 | 36,432 | 3/4 | 24,469 | 3/4 | 12,482 | 3/4 | 1,080 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 72,143 | 5 | 60,156 | 5 | 48,168 | 5 | 36,183 | 5 | 24,220 | 5 | 12,233 | 5 | 934 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 71,894 | 1/4 | 59,906 | 1/4 | 47,919 | 1/4 | 35,934 | 1/4 | 23,970 | 1/4 | 11,983 | 1/4 | 789 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 71,644 | 1/2 | 59,656 | 1/2 | 47,669 | 1/2 | 35,685 | 1/2 | 23,720 | 1/2 | 11,733 | 1/2 | 685 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 71,394 | 3/4 | 59,407 | 3/4 | 47,419 | 3/4 | 35,436 | 3/4 | 23,470 | 3/4 | 11,483 | 3/4 | 580 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 71,144 | 6 | 59,157 | 6 | 47,169 | 6 | 35,187 | 6 | 23,221 | 6 | 11,234 | 6 | 476 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 70,895 | 1/4 | 58,907 | 1/4 | 46,920 | 1/4 | 34,938 | 1/4 | 22,971 | 1/4 | 10,984 | 1/4 | 372 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 70,645 | 1/2 | 58,657 | 1/2 | 46,670 | 1/2 | 34,689 | 1/2 | 22,721 | 1/2 | 10,734 | 1/2 | 310 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 70,395 | 3/4 | 58,408 | 3/4 | 46,420 | 3/4 | 34,440 | 3/4 | 22,471 | 3/4 | 10,484 | 3/4 | 248 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 70,146 | 7 | 58,158 | 7 | 46,171 | 7 | 34,191 | 7 | 22,222 | 7 | 10,235 | 7 | 185 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 69,896 | 1/4 | 57,908 | 1/4 | 45,921 | 1/4 | 33,942 | 1/4 | 21,972 | 1/4 | 9,985 | 1/4 | 123 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 69,646 | 1/2 | 57,659 | 1/2 | 45,671 | 1/2 | 33,693 | 1/2 | 21,722 | 1/2 | 9,735 | 1/2 | 102 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 69,396 | 3/4 | 57,409 | 3/4 | 45,421 | 3/4 | 33,444 | 3/4 | 21,473 | 3/4 | 9,485 | 3/4 | 81 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 69,147 | 8 | 57,159 | 8 | 45,172 | 8 | 33,195 | 8 | 21,223 | 8 | 9,236 | 8 | 60 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 68,897 | 1/4 | 56,909 | 1/4 | 44,922 | 1/4 | 32,946 | 1/4 | 20,973 | 1/4 | 8,986 | 1/4 | 39 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 68,647 | 1/2 | 56,660 | 1/2 | 44,672 | 1/2 | 32,697 | 1/2 | 20,723 | 1/2 | 8,736 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 68,397 | 3/4 | 56,410 | 3/4 | 44,422 | 3/4 | 32,448 | 3/4 | 20,474 | 3/4 | 8,487 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 68,148 | 9 | 56,160 | 9 | 44,173 | 9 | 32,199 | 9 | 20,224 | 9 | 8,237 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 67,898 | 1/4 | 55,910 | 1/4 | 43,923 | 1/4 | 31,950 | 1/4 | 19,974 | 1/4 | 7,987 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 67,648 | 1/2 | 55,661 | 1/2 | 43,673 | 1/2 | 31,701 | 1/2 | 19,724 | 1/2 | 7,738 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 67,398 | 3/4 | 55,411 | 3/4 | 43,423 | 3/4 | 31,452 | 3/4 | 19,475 | 3/4 | 7,488 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 67,149 | 10 | 55,161 | 10 | 43,174 | 10 | 31,203 | 10 | 19,225 | 10 | 7,239 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 66,899 | 1/4 | 54,911 | 1/4 | 42,924 | 1/4 | 30,954 | 1/4 | 18,975 | 1/4 | 6,989 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 66,649 | 1/2 | 54,662 | 1/2 | 42,674 | 1/2 | 30,705 | 1/2 | 18,725 | 1/2 | 6,740 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 66,399 | 3/4 | 54,412 | 3/4 | 42,424 | 3/4 | 30,456 | 3/4 | 18,476 | 3/4 | 6,491 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 66,150 | 11 | 54,162 | 11 | 42,175 | 11 | 30,207 | 11 | 18,226 | 11 | 6,242 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 65,900 | 1/4 | 53,912 | 1/4 | 41,925 | 1/4 | 29,958 | 1/4 | 17,976 | 1/4 | 5,993 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 65,650 | 1/2 | 53,663 | 1/2 | 41,675 | 1/2 | 29,709 | 1/2 | 17,727 | 1/2 | 5,745 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 65,400 | 3/4 | 53,413 | 3/4 | 41,425 | 3/4 | 29,460 | 3/4 | 17,477 | 3/4 | 5,497 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/04/2019 SW
CALCULATED: 11/04/2019 CL
PRINTED: 11/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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