



BARGE "EMS 377"

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 | - 00-1/4 | 00-1/4 | - 00-5/8 | 00-5/8 | - 00-7/8 | 00-7/8 | - 01-1/4 | 01-1/4 | - 01-1/2 | 01-1/2 | - 01-7/8 | 01-7/8 |
| 1 STBD | - 00-1/4 | 00-1/4 | - 00-5/8 | 00-5/8 | - 00-7/8 | 00-7/8 | - 01-1/4 | 01-1/4 | - 01-1/2 | 01-1/2 | - 01-7/8 | 01-7/8 |
| 2 PORT | 00-1/4 | - 00-1/4 | 00-3/8 | - 00-3/8 | 00-5/8 | - 00-5/8 | 00-3/4 | - 00-3/4 | 01-0/8 | - 01-0/8 | 01-1/8 | - 01-1/8 |
| 2 STBD | 00-1/4 | - 00-1/4 | 00-3/8 | - 00-3/8 | 00-5/8 | - 00-5/8 | 00-3/4 | - 00-3/4 | 01-0/8 | - 01-0/8 | 01-1/8 | - 01-1/8 |
| 3 PORT | - 00-1/2 | 00-1/2 | - 00-7/8 | 00-7/8 | - 01-3/8 | 01-3/8 | - 01-7/8 | 01-7/8 | - 02-1/4 | 02-1/4 | - 02-3/4 | 02-3/4 |
| 3 STBD | - 00-1/2 | 00-1/2 | - 00-7/8 | 00-7/8 | - 01-3/8 | 01-3/8 | - 01-7/8 | 01-7/8 | - 02-1/4 | 02-1/4 | - 02-3/4 | 02-3/4 |

(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 PORT IS 00-5/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

July 9, 2012

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

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BARGE "EMS 377"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

| 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 | 2.65 | 0 | 255.59 | 0 | 537.29 | 0 | 837.77 | 0 | 1,158.54 | 0 | 1,489.96 | 0 | 1,821.37 | 0 | 2,152.79 | 0 | 2,484.21 | 0 | 2,815.61 |
| 1/4 | 5.94 | 1/4 | 261.27 | 1/4 | 543.39 | 1/4 | 844.24 | 1/4 | 1,165.45 | 1/4 | 1,496.86 | 1/4 | 1,828.28 | 1/4 | 2,159.69 | 1/4 | 2,491.11 | 1/4 | 2,822.52 |
| 1/2 | 9.23 | 1/2 | 266.95 | 1/2 | 549.48 | 1/2 | 850.70 | 1/2 | 1,172.35 | 1/2 | 1,503.77 | 1/2 | 1,835.18 | 1/2 | 2,166.60 | 1/2 | 2,498.02 | 1/2 | 2,829.42 |
| 3/4 | 12.52 | 3/4 | 272.63 | 3/4 | 555.57 | 3/4 | 857.17 | 3/4 | 1,179.26 | 3/4 | 1,510.67 | 3/4 | 1,842.09 | 3/4 | 2,173.50 | 3/4 | 2,504.92 | 3/4 | 2,836.32 |
| 1 | 15.81 | 1 | 278.31 | 1 | 561.67 | 1 | 863.63 | 1 | 1,186.16 | 1 | 1,517.58 | 1 | 1,848.99 | 1 | 2,180.41 | 1 | 2,511.82 | 1 | 2,843.23 |
| 1/4 | 20.87 | 1/4 | 284.02 | 1/4 | 567.79 | 1/4 | 870.13 | 1/4 | 1,193.06 | 1/4 | 1,524.48 | 1/4 | 1,855.90 | 1/4 | 2,187.31 | 1/4 | 2,518.73 | 1/4 | 2,850.13 |
| 1/2 | 25.92 | 1/2 | 289.73 | 1/2 | 573.92 | 1/2 | 876.63 | 1/2 | 1,199.97 | 1/2 | 1,531.39 | 1/2 | 1,862.80 | 1/2 | 2,194.22 | 1/2 | 2,525.63 | 1/2 | 2,857.04 |
| 3/4 | 30.97 | 3/4 | 295.45 | 3/4 | 580.05 | 3/4 | 883.13 | 3/4 | 1,206.87 | 3/4 | 1,538.29 | 3/4 | 1,869.71 | 3/4 | 2,201.12 | 3/4 | 2,532.54 | 3/4 | 2,863.94 |
| 2 | 36.03 | 2 | 301.16 | 2 | 586.18 | 2 | 889.63 | 2 | 1,213.78 | 2 | 1,545.19 | 2 | 1,876.61 | 2 | 2,208.03 | 2 | 2,539.44 | 2 | 2,870.84 |
| 1/4 | 41.36 | 1/4 | 306.91 | 1/4 | 592.34 | 1/4 | 896.17 | 1/4 | 1,220.68 | 1/4 | 1,552.10 | 1/4 | 1,883.51 | 1/4 | 2,214.93 | 1/4 | 2,546.35 | 1/4 | 2,877.75 |
| 1/2 | 46.69 | 1/2 | 312.66 | 1/2 | 598.50 | 1/2 | 902.70 | 1/2 | 1,227.59 | 1/2 | 1,559.00 | 1/2 | 1,890.42 | 1/2 | 2,221.84 | 1/2 | 2,553.25 | 1/2 | 2,884.65 |
| 3/4 | 52.03 | 3/4 | 318.40 | 3/4 | 604.66 | 3/4 | 909.24 | 3/4 | 1,234.49 | 3/4 | 1,565.91 | 3/4 | 1,897.32 | 3/4 | 2,228.74 | 3/4 | 2,560.16 | 3/4 | 2,891.55 |
| 3 | 57.36 | 3 | 324.15 | 3 | 610.83 | 3 | 915.77 | 3 | 1,241.40 | 3 | 1,572.81 | 3 | 1,904.23 | 3 | 2,235.64 | 3 | 2,567.06 | 3 | 2,898.46 |
| 1/4 | 62.73 | 1/4 | 329.94 | 1/4 | 617.02 | 1/4 | 922.36 | 1/4 | 1,248.30 | 1/4 | 1,579.72 | 1/4 | 1,911.13 | 1/4 | 2,242.55 | 1/4 | 2,573.96 | 1/4 | 2,905.36 |
| 1/2 | 68.10 | 1/2 | 335.72 | 1/2 | 623.22 | 1/2 | 928.94 | 1/2 | 1,255.21 | 1/2 | 1,586.62 | 1/2 | 1,918.04 | 1/2 | 2,249.45 | 1/2 | 2,580.87 | 1/2 | 2,912.26 |
| 3/4 | 73.47 | 3/4 | 341.50 | 3/4 | 629.42 | 3/4 | 935.53 | 3/4 | 1,262.11 | 3/4 | 1,593.53 | 3/4 | 1,924.94 | 3/4 | 2,256.36 | 3/4 | 2,587.77 | 3/4 | 2,919.17 |
| 4 | 78.83 | 4 | 347.28 | 4 | 635.61 | 4 | 942.12 | 4 | 1,269.01 | 4 | 1,600.43 | 4 | 1,931.85 | 4 | 2,263.26 | 4 | 2,594.68 | 4 | 2,926.07 |
| 1/4 | 84.24 | 1/4 | 353.10 | 1/4 | 641.84 | 1/4 | 948.74 | 1/4 | 1,275.92 | 1/4 | 1,607.33 | 1/4 | 1,938.75 | 1/4 | 2,270.17 | 1/4 | 2,601.58 | 1/4 | 2,932.97 |
| 1/2 | 89.64 | 1/2 | 358.92 | 1/2 | 648.07 | 1/2 | 955.36 | 1/2 | 1,282.82 | 1/2 | 1,614.24 | 1/2 | 1,945.66 | 1/2 | 2,277.07 | 1/2 | 2,608.49 | 1/2 | 2,939.88 |
| 3/4 | 95.04 | 3/4 | 364.73 | 3/4 | 654.31 | 3/4 | 961.98 | 3/4 | 1,289.73 | 3/4 | 1,621.14 | 3/4 | 1,952.56 | 3/4 | 2,283.98 | 3/4 | 2,615.39 | 3/4 | 2,946.78 |
| 5 | 100.45 | 5 | 370.55 | 5 | 660.54 | 5 | 968.60 | 5 | 1,296.63 | 5 | 1,628.05 | 5 | 1,959.46 | 5 | 2,290.88 | 5 | 2,622.30 | 5 | 2,953.68 |
| 1/4 | 105.88 | 1/4 | 376.40 | 1/4 | 666.77 | 1/4 | 975.28 | 1/4 | 1,303.54 | 1/4 | 1,634.95 | 1/4 | 1,966.37 | 1/4 | 2,297.78 | 1/4 | 2,629.20 | 1/4 | 2,960.59 |
| 1/2 | 111.32 | 1/2 | 382.25 | 1/2 | 673.01 | 1/2 | 981.96 | 1/2 | 1,310.44 | 1/2 | 1,641.86 | 1/2 | 1,973.27 | 1/2 | 2,304.69 | 1/2 | 2,636.11 | 1/2 | 2,967.49 |
| 3/4 | 116.76 | 3/4 | 388.11 | 3/4 | 679.25 | 3/4 | 988.64 | 3/4 | 1,317.35 | 3/4 | 1,648.76 | 3/4 | 1,980.18 | 3/4 | 2,311.59 | 3/4 | 2,643.01 | 3/4 | 2,974.39 |
| 6 | 122.19 | 6 | 393.96 | 6 | 685.48 | 6 | 995.32 | 6 | 1,324.25 | 6 | 1,655.67 | 6 | 1,987.08 | 6 | 2,318.50 | 6 | 2,649.91 | 6 | 2,981.30 |
| 1/4 | 127.67 | 1/4 | 399.84 | 1/4 | 691.76 | 1/4 | 1,002.03 | 1/4 | 1,331.15 | 1/4 | 1,662.57 | 1/4 | 1,993.99 | 1/4 | 2,325.40 | 1/4 | 2,656.82 | 1/4 | 2,988.20 |
| 1/2 | 133.14 | 1/2 | 405.73 | 1/2 | 698.03 | 1/2 | 1,008.75 | 1/2 | 1,338.06 | 1/2 | 1,669.48 | 1/2 | 2,000.89 | 1/2 | 2,332.31 | 1/2 | 2,663.72 | 1/2 | 2,995.11 |
| 3/4 | 138.61 | 3/4 | 411.62 | 3/4 | 704.30 | 3/4 | 1,015.46 | 3/4 | 1,344.96 | 3/4 | 1,676.38 | 3/4 | 2,007.80 | 3/4 | 2,339.21 | 3/4 | 2,670.63 | 3/4 | 3,002.01 |
| 7 | 144.08 | 7 | 417.50 | 7 | 710.57 | 7 | 1,022.18 | 7 | 1,351.87 | 7 | 1,683.28 | 7 | 2,014.70 | 7 | 2,346.12 | 7 | 2,677.53 | 7 | 3,008.91 |
| 1/4 | 149.59 | 1/4 | 423.42 | 1/4 | 716.86 | 1/4 | 1,028.93 | 1/4 | 1,358.77 | 1/4 | 1,690.19 | 1/4 | 2,021.60 | 1/4 | 2,353.02 | 1/4 | 2,684.44 | 1/4 | 3,015.82 |
| 1/2 | 155.10 | 1/2 | 429.34 | 1/2 | 723.16 | 1/2 | 1,035.68 | 1/2 | 1,365.68 | 1/2 | 1,697.09 | 1/2 | 2,028.51 | 1/2 | 2,359.93 | 1/2 | 2,691.34 | 1/2 | 3,022.72 |
| 3/4 | 160.60 | 3/4 | 435.26 | 3/4 | 729.45 | 3/4 | 1,042.43 | 3/4 | 1,372.58 | 3/4 | 1,704.00 | 3/4 | 2,035.41 | 3/4 | 2,366.83 | 3/4 | 2,698.25 | 3/4 | 3,029.62 |
| 8 | 166.11 | 8 | 441.18 | 8 | 735.74 | 8 | 1,049.18 | 8 | 1,379.49 | 8 | 1,710.90 | 8 | 2,042.32 | 8 | 2,373.73 | 8 | 2,705.15 | 8 | 3,036.53 |
| 1/4 | 171.65 | 1/4 | 447.14 | 1/4 | 742.07 | 1/4 | 1,055.96 | 1/4 | 1,386.39 | 1/4 | 1,717.81 | 1/4 | 2,049.22 | 1/4 | 2,380.64 | 1/4 | 2,712.05 | 1/4 | 3,043.43 |
| 1/2 | 177.19 | 1/2 | 453.09 | 1/2 | 748.40 | 1/2 | 1,062.74 | 1/2 | 1,393.30 | 1/2 | 1,724.71 | 1/2 | 2,056.13 | 1/2 | 2,387.54 | 1/2 | 2,718.96 | 1/2 | 3,050.33 |
| 3/4 | 182.73 | 3/4 | 459.05 | 3/4 | 754.72 | 3/4 | 1,069.53 | 3/4 | 1,400.20 | 3/4 | 1,731.62 | 3/4 | 2,063.03 | 3/4 | 2,394.45 | 3/4 | 2,725.86 | 3/4 | 3,057.24 |
| 9 | 188.27 | 9 | 465.00 | 9 | 761.05 | 9 | 1,076.31 | 9 | 1,407.10 | 9 | 1,738.52 | 9 | 2,069.94 | 9 | 2,401.35 | 9 | 2,732.77 | 9 | 3,064.14 |
| 1/4 | 193.85 | 1/4 | 470.99 | 1/4 | 767.41 | 1/4 | 1,083.13 | 1/4 | 1,414.01 | 1/4 | 1,745.42 | 1/4 | 2,076.84 | 1/4 | 2,408.26 | 1/4 | 2,739.67 | 1/4 | 3,071.04 |
| 1/2 | 199.42 | 1/2 | 476.98 | 1/2 | 773.77 | 1/2 | 1,089.95 | 1/2 | 1,420.91 | 1/2 | 1,752.33 | 1/2 | 2,083.75 | 1/2 | 2,415.16 | 1/2 | 2,746.58 | 1/2 | 3,077.95 |
| 3/4 | 205.00 | 3/4 | 482.97 | 3/4 | 780.14 | 3/4 | 1,096.76 | 3/4 | 1,427.82 | 3/4 | 1,759.23 | 3/4 | 2,090.65 | 3/4 | 2,422.07 | 3/4 | 2,753.48 | 3/4 | 3,084.85 |
| 10 | 210.57 | 10 | 488.96 | 10 | 786.50 | 10 | 1,103.58 | 10 | 1,434.72 | 10 | 1,766.14 | 10 | 2,097.55 | 10 | 2,428.97 | 10 | 2,760.39 | 10 | 3,091.75 |
| 1/4 | 216.18 | 1/4 | 494.99 | 1/4 | 792.89 | 1/4 | 1,110.44 | 1/4 | 1,441.63 | 1/4 | 1,773.04 | 1/4 | 2,104.46 | 1/4 | 2,435.87 | 1/4 | 2,767.29 | 1/4 | 3,098.66 |
| 1/2 | 221.79 | 1/2 | 501.01 | 1/2 | 799.28 | 1/2 | 1,117.29 | 1/2 | 1,448.53 | 1/2 | 1,779.95 | 1/2 | 2,111.36 | 1/2 | 2,442.78 | 1/2 | 2,774.19 | 1/2 | 3,105.56 |
| 3/4 | 227.40 | 3/4 | 507.03 | 3/4 | 805.67 | 3/4 | 1,124.14 | 3/4 | 1,455.44 | 3/4 | 1,786.85 | 3/4 | 2,118.27 | 3/4 | 2,449.68 | 3/4 | 2,781.10 | 3/4 | 3,112.46 |
| 11 | 233.01 | 11 | 513.06 | 11 | 812.07 | 11 | 1,130.99 | 11 | 1,462.34 | 11 | 1,793.76 | 11 | 2,125.17 | 11 | 2,456.59 | 11 | 2,788.00 | 11 | 3,119.37 |
| 1/4 | 238.66 | 1/4 | 519.12 | 1/4 | 818.49 | 1/4 | 1,137.88 | 1/4 | 1,469.24 | 1/4 | 1,800.66 | 1/4 | 2,132.08 | 1/4 | 2,463.49 | 1/4 | 2,794.90 | 1/4 | 3,126.27 |
| 1/2 | 244.30 | 1/2 | 525.18 | 1/2 | 824.92 | 1/2 | 1,144.77 | 1/2 | 1,476.15 | 1/2 | 1,807.57 | 1/2 | 2,138.98 | 1/2 | 2,470.40 | 1/2 | 2,801.81 | 1/2 | 3,133.18 |
| 3/4 | 249.95 | 3/4 | 531.23 | 3/4 | 831.34 | 3/4 | 1,151.66 | 3/4 | 1,483.05 | 3/4 | 1,814.47 | 3/4 | 2,145.89 | 3/4 | 2,477.30 | 3/4 | 2,808.71 | 3/4 | 3,140.08 |

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 TOP OF 2" DIAMETER HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "EMS 377"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

| 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 | 3,146.98 | 0 | 3,478.35 | 0 | 3,809.72 | 0 | 4,140.29 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,153.89 | 1/4 | 3,485.25 | 1/4 | 3,816.62 | 1/4 | 4,147.15 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,160.79 | 1/2 | 3,492.16 | 1/2 | 3,823.53 | 1/2 | 4,154.01 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,167.69 | 3/4 | 3,499.06 | 3/4 | 3,830.43 | 3/4 | 4,160.88 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,174.60 | 1 | 3,505.96 | 1 | 3,837.33 | 1 | 4,167.74 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,181.50 | 1/4 | 3,512.87 | 1/4 | 3,844.24 | 1/4 | 4,174.60 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,188.40 | 1/2 | 3,519.77 | 1/2 | 3,851.14 | 1/2 | 4,181.47 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,195.31 | 3/4 | 3,526.67 | 3/4 | 3,858.04 | 3/4 | 4,188.33 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,202.21 | 2 | 3,533.58 | 2 | 3,864.95 | 2 | 4,195.19 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,209.11 | 1/4 | 3,540.48 | 1/4 | 3,871.85 | 1/4 | 4,202.06 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,216.02 | 1/2 | 3,547.39 | 1/2 | 3,878.75 | 1/2 | 4,208.92 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,222.92 | 3/4 | 3,554.29 | 3/4 | 3,885.66 | 3/4 | 4,215.78 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,229.82 | 3 | 3,561.19 | 3 | 3,892.56 | 3 | 4,222.65 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,236.73 | 1/4 | 3,568.10 | 1/4 | 3,899.46 | 1/4 | 4,229.51 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,243.63 | 1/2 | 3,575.00 | 1/2 | 3,906.37 | 1/2 | 4,236.38 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,250.53 | 3/4 | 3,581.90 | 3/4 | 3,913.27 | 3/4 | 4,243.24 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,257.44 | 4 | 3,588.81 | 4 | 3,920.17 | 4 | 4,250.10 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,264.34 | 1/4 | 3,595.71 | 1/4 | 3,927.08 | 1/4 | 4,256.97 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,271.25 | 1/2 | 3,602.61 | 1/2 | 3,933.98 | 1/2 | 4,263.83 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,278.15 | 3/4 | 3,609.52 | 3/4 | 3,940.88 | 3/4 | 4,270.69 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,285.05 | 5 | 3,616.42 | 5 | 3,947.79 | 5 | 4,277.56 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,291.96 | 1/4 | 3,623.32 | 1/4 | 3,954.69 | 1/4 | 4,284.42 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,298.86 | 1/2 | 3,630.23 | 1/2 | 3,961.60 | 1/2 | 4,291.28 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,305.76 | 3/4 | 3,637.13 | 3/4 | 3,968.50 | 3/4 | 4,298.15 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,312.67 | 6 | 3,644.03 | 6 | 3,975.40 | 6 | 4,305.01 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,319.57 | 1/4 | 3,650.94 | 1/4 | 3,982.31 | 1/4 | 4,311.87 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,326.47 | 1/2 | 3,657.84 | 1/2 | 3,989.21 | 1/2 | 4,318.74 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,333.38 | 3/4 | 3,664.74 | 3/4 | 3,996.11 | 3/4 | 4,325.60 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,340.28 | 7 | 3,671.65 | 7 | 4,003.02 | 7 | 4,332.46 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,347.18 | 1/4 | 3,678.55 | 1/4 | 4,009.88 | 1/4 | 4,339.25 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,354.09 | 1/2 | 3,685.46 | 1/2 | 4,016.74 | 1/2 | 4,346.04 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,360.99 | 3/4 | 3,692.36 | 3/4 | 4,023.61 | 3/4 | 4,352.83 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,367.89 | 8 | 3,699.26 | 8 | 4,030.47 | 8 | 4,359.62 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,374.80 | 1/4 | 3,706.17 | 1/4 | 4,037.33 | 1/4 | 4,366.06 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,381.70 | 1/2 | 3,713.07 | 1/2 | 4,044.20 | 1/2 | 4,372.50 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,388.60 | 3/4 | 3,719.97 | 3/4 | 4,051.06 | 3/4 | 4,378.94 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,395.51 | 9 | 3,726.88 | 9 | 4,057.92 | 9 | 4,385.38 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,402.41 | 1/4 | 3,733.78 | 1/4 | 4,064.79 | 1/4 | 4,390.60 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,409.32 | 1/2 | 3,740.68 | 1/2 | 4,071.65 | 1/2 | 4,395.82 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,416.22 | 3/4 | 3,747.59 | 3/4 | 4,078.51 | 3/4 | 4,401.04 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,423.12 | 10 | 3,754.49 | 10 | 4,085.38 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,430.03 | 1/4 | 3,761.39 | 1/4 | 4,092.24 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,436.93 | 1/2 | 3,768.30 | 1/2 | 4,099.11 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,443.83 | 3/4 | 3,775.20 | 3/4 | 4,105.97 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,450.74 | 11 | 3,782.10 | 11 | 4,112.83 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,457.64 | 1/4 | 3,789.01 | 1/4 | 4,119.70 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,464.54 | 1/2 | 3,795.91 | 1/2 | 4,126.56 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,471.45 | 3/4 | 3,802.81 | 3/4 | 4,133.42 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

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



BARGE "EMS 377"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 2.66 | 0 | 255.63 | 0 | 537.36 | 0 | 838.67 | 0 | 1,159.99 | 0 | 1,491.40 | 0 | 1,822.82 | 0 | 2,154.23 | 0 | 2,485.65 | 0 | 2,817.06 |
| 1/4 | 5.95 | 1/4 | 261.31 | 1/4 | 543.46 | 1/4 | 845.16 | 1/4 | 1,166.89 | 1/4 | 1,498.31 | 1/4 | 1,829.72 | 1/4 | 2,161.14 | 1/4 | 2,492.55 | 1/4 | 2,823.96 |
| 1/2 | 9.24 | 1/2 | 266.99 | 1/2 | 549.55 | 1/2 | 851.65 | 1/2 | 1,173.79 | 1/2 | 1,505.21 | 1/2 | 1,836.63 | 1/2 | 2,168.04 | 1/2 | 2,499.46 | 1/2 | 2,830.86 |
| 3/4 | 12.53 | 3/4 | 272.67 | 3/4 | 555.64 | 3/4 | 858.15 | 3/4 | 1,180.70 | 3/4 | 1,512.11 | 3/4 | 1,843.53 | 3/4 | 2,174.95 | 3/4 | 2,506.36 | 3/4 | 2,837.77 |
| 1 | 15.83 | 1 | 278.35 | 1 | 561.74 | 1 | 864.64 | 1 | 1,187.60 | 1 | 1,519.02 | 1 | 1,850.44 | 1 | 2,181.85 | 1 | 2,513.27 | 1 | 2,844.67 |
| 1/4 | 20.88 | 1/4 | 284.07 | 1/4 | 567.87 | 1/4 | 871.17 | 1/4 | 1,194.51 | 1/4 | 1,525.92 | 1/4 | 1,857.34 | 1/4 | 2,188.76 | 1/4 | 2,520.17 | 1/4 | 2,851.57 |
| 1/2 | 25.93 | 1/2 | 289.78 | 1/2 | 573.99 | 1/2 | 877.70 | 1/2 | 1,201.41 | 1/2 | 1,532.83 | 1/2 | 1,864.24 | 1/2 | 2,195.66 | 1/2 | 2,527.08 | 1/2 | 2,858.48 |
| 3/4 | 30.99 | 3/4 | 295.50 | 3/4 | 580.12 | 3/4 | 884.23 | 3/4 | 1,208.32 | 3/4 | 1,539.73 | 3/4 | 1,871.15 | 3/4 | 2,202.56 | 3/4 | 2,533.98 | 3/4 | 2,865.38 |
| 2 | 36.04 | 2 | 301.21 | 2 | 586.25 | 2 | 890.76 | 2 | 1,215.22 | 2 | 1,546.64 | 2 | 1,878.05 | 2 | 2,209.47 | 2 | 2,540.89 | 2 | 2,872.28 |
| 1/4 | 41.37 | 1/4 | 306.96 | 1/4 | 592.41 | 1/4 | 897.32 | 1/4 | 1,222.13 | 1/4 | 1,553.54 | 1/4 | 1,884.96 | 1/4 | 2,216.37 | 1/4 | 2,547.79 | 1/4 | 2,879.19 |
| 1/2 | 46.71 | 1/2 | 312.71 | 1/2 | 598.57 | 1/2 | 903.89 | 1/2 | 1,229.03 | 1/2 | 1,560.45 | 1/2 | 1,891.86 | 1/2 | 2,223.28 | 1/2 | 2,554.69 | 1/2 | 2,886.09 |
| 3/4 | 52.04 | 3/4 | 318.45 | 3/4 | 604.74 | 3/4 | 910.45 | 3/4 | 1,235.93 | 3/4 | 1,567.35 | 3/4 | 1,898.77 | 3/4 | 2,230.18 | 3/4 | 2,561.60 | 3/4 | 2,892.99 |
| 3 | 57.38 | 3 | 324.20 | 3 | 610.90 | 3 | 917.01 | 3 | 1,242.84 | 3 | 1,574.26 | 3 | 1,905.67 | 3 | 2,237.09 | 3 | 2,568.50 | 3 | 2,899.90 |
| 1/4 | 62.75 | 1/4 | 329.99 | 1/4 | 617.10 | 1/4 | 923.62 | 1/4 | 1,249.74 | 1/4 | 1,581.16 | 1/4 | 1,912.58 | 1/4 | 2,243.99 | 1/4 | 2,575.41 | 1/4 | 2,906.80 |
| 1/2 | 68.12 | 1/2 | 335.77 | 1/2 | 623.29 | 1/2 | 930.24 | 1/2 | 1,256.65 | 1/2 | 1,588.06 | 1/2 | 1,919.48 | 1/2 | 2,250.90 | 1/2 | 2,582.31 | 1/2 | 2,913.70 |
| 3/4 | 73.48 | 3/4 | 341.55 | 3/4 | 629.49 | 3/4 | 936.85 | 3/4 | 1,263.55 | 3/4 | 1,594.97 | 3/4 | 1,926.38 | 3/4 | 2,257.80 | 3/4 | 2,589.22 | 3/4 | 2,920.61 |
| 4 | 78.85 | 4 | 347.34 | 4 | 635.69 | 4 | 943.46 | 4 | 1,270.46 | 4 | 1,601.87 | 4 | 1,933.29 | 4 | 2,264.71 | 4 | 2,596.12 | 4 | 2,927.51 |
| 1/4 | 84.26 | 1/4 | 353.15 | 1/4 | 641.92 | 1/4 | 950.10 | 1/4 | 1,277.36 | 1/4 | 1,608.78 | 1/4 | 1,940.19 | 1/4 | 2,271.61 | 1/4 | 2,603.03 | 1/4 | 2,934.41 |
| 1/2 | 89.66 | 1/2 | 358.97 | 1/2 | 648.15 | 1/2 | 956.75 | 1/2 | 1,284.27 | 1/2 | 1,615.68 | 1/2 | 1,947.10 | 1/2 | 2,278.51 | 1/2 | 2,609.93 | 1/2 | 2,941.32 |
| 3/4 | 95.07 | 3/4 | 364.79 | 3/4 | 654.38 | 3/4 | 963.39 | 3/4 | 1,291.17 | 3/4 | 1,622.59 | 3/4 | 1,954.00 | 3/4 | 2,285.42 | 3/4 | 2,616.83 | 3/4 | 2,948.22 |
| 5 | 100.47 | 5 | 370.61 | 5 | 660.61 | 5 | 970.04 | 5 | 1,298.08 | 5 | 1,629.49 | 5 | 1,960.91 | 5 | 2,292.32 | 5 | 2,623.74 | 5 | 2,955.12 |
| 1/4 | 105.91 | 1/4 | 376.46 | 1/4 | 666.88 | 1/4 | 976.72 | 1/4 | 1,304.98 | 1/4 | 1,636.40 | 1/4 | 1,967.81 | 1/4 | 2,299.23 | 1/4 | 2,630.64 | 1/4 | 2,962.03 |
| 1/2 | 111.34 | 1/2 | 382.31 | 1/2 | 673.15 | 1/2 | 983.40 | 1/2 | 1,311.88 | 1/2 | 1,643.30 | 1/2 | 1,974.72 | 1/2 | 2,306.13 | 1/2 | 2,637.55 | 1/2 | 2,968.93 |
| 3/4 | 116.78 | 3/4 | 388.16 | 3/4 | 679.41 | 3/4 | 990.08 | 3/4 | 1,318.79 | 3/4 | 1,650.20 | 3/4 | 1,981.62 | 3/4 | 2,313.04 | 3/4 | 2,644.45 | 3/4 | 2,975.83 |
| 6 | 122.22 | 6 | 394.01 | 6 | 685.68 | 6 | 996.76 | 6 | 1,325.69 | 6 | 1,657.11 | 6 | 1,988.53 | 6 | 2,319.94 | 6 | 2,651.36 | 6 | 2,982.74 |
| 1/4 | 127.69 | 1/4 | 399.90 | 1/4 | 691.98 | 1/4 | 1,003.48 | 1/4 | 1,332.60 | 1/4 | 1,664.01 | 1/4 | 1,995.43 | 1/4 | 2,326.85 | 1/4 | 2,658.26 | 1/4 | 2,989.64 |
| 1/2 | 133.17 | 1/2 | 405.79 | 1/2 | 698.28 | 1/2 | 1,010.19 | 1/2 | 1,339.50 | 1/2 | 1,670.92 | 1/2 | 2,002.33 | 1/2 | 2,333.75 | 1/2 | 2,665.17 | 1/2 | 2,996.54 |
| 3/4 | 138.64 | 3/4 | 411.67 | 3/4 | 704.58 | 3/4 | 1,016.91 | 3/4 | 1,346.41 | 3/4 | 1,677.82 | 3/4 | 2,009.24 | 3/4 | 2,340.65 | 3/4 | 2,672.07 | 3/4 | 3,003.45 |
| 7 | 144.11 | 7 | 417.56 | 7 | 710.88 | 7 | 1,023.62 | 7 | 1,353.31 | 7 | 1,684.73 | 7 | 2,016.14 | 7 | 2,347.56 | 7 | 2,678.98 | 7 | 3,010.35 |
| 1/4 | 149.62 | 1/4 | 423.48 | 1/4 | 717.20 | 1/4 | 1,030.37 | 1/4 | 1,360.22 | 1/4 | 1,691.63 | 1/4 | 2,023.05 | 1/4 | 2,354.46 | 1/4 | 2,685.88 | 1/4 | 3,017.25 |
| 1/2 | 155.13 | 1/2 | 429.40 | 1/2 | 723.52 | 1/2 | 1,037.12 | 1/2 | 1,367.12 | 1/2 | 1,698.54 | 1/2 | 2,029.95 | 1/2 | 2,361.37 | 1/2 | 2,692.78 | 1/2 | 3,024.16 |
| 3/4 | 160.63 | 3/4 | 435.32 | 3/4 | 729.85 | 3/4 | 1,043.87 | 3/4 | 1,374.02 | 3/4 | 1,705.44 | 3/4 | 2,036.86 | 3/4 | 2,368.27 | 3/4 | 2,699.69 | 3/4 | 3,031.06 |
| 8 | 166.14 | 8 | 441.25 | 8 | 736.17 | 8 | 1,050.62 | 8 | 1,380.93 | 8 | 1,712.35 | 8 | 2,043.76 | 8 | 2,375.18 | 8 | 2,706.59 | 8 | 3,037.97 |
| 1/4 | 171.68 | 1/4 | 447.20 | 1/4 | 742.53 | 1/4 | 1,057.40 | 1/4 | 1,387.83 | 1/4 | 1,719.25 | 1/4 | 2,050.67 | 1/4 | 2,382.08 | 1/4 | 2,713.50 | 1/4 | 3,044.87 |
| 1/2 | 177.22 | 1/2 | 453.16 | 1/2 | 748.88 | 1/2 | 1,064.18 | 1/2 | 1,394.74 | 1/2 | 1,726.15 | 1/2 | 2,057.57 | 1/2 | 2,388.99 | 1/2 | 2,720.40 | 1/2 | 3,051.77 |
| 3/4 | 182.77 | 3/4 | 459.11 | 3/4 | 755.24 | 3/4 | 1,070.97 | 3/4 | 1,401.64 | 3/4 | 1,733.06 | 3/4 | 2,064.47 | 3/4 | 2,395.89 | 3/4 | 2,727.31 | 3/4 | 3,058.68 |
| 9 | 188.31 | 9 | 465.07 | 9 | 761.59 | 9 | 1,077.75 | 9 | 1,408.55 | 9 | 1,739.96 | 9 | 2,071.38 | 9 | 2,402.80 | 9 | 2,734.21 | 9 | 3,065.58 |
| 1/4 | 193.88 | 1/4 | 471.06 | 1/4 | 767.99 | 1/4 | 1,084.57 | 1/4 | 1,415.45 | 1/4 | 1,746.87 | 1/4 | 2,078.28 | 1/4 | 2,409.70 | 1/4 | 2,741.12 | 1/4 | 3,072.48 |
| 1/2 | 199.46 | 1/2 | 477.05 | 1/2 | 774.38 | 1/2 | 1,091.39 | 1/2 | 1,422.36 | 1/2 | 1,753.77 | 1/2 | 2,085.19 | 1/2 | 2,416.60 | 1/2 | 2,748.02 | 1/2 | 3,079.39 |
| 3/4 | 205.04 | 3/4 | 483.04 | 3/4 | 780.77 | 3/4 | 1,098.21 | 3/4 | 1,429.26 | 3/4 | 1,760.68 | 3/4 | 2,092.09 | 3/4 | 2,423.51 | 3/4 | 2,754.92 | 3/4 | 3,086.29 |
| 10 | 210.61 | 10 | 489.03 | 10 | 787.16 | 10 | 1,105.03 | 10 | 1,436.17 | 10 | 1,767.58 | 10 | 2,099.00 | 10 | 2,430.41 | 10 | 2,761.83 | 10 | 3,093.19 |
| 1/4 | 216.22 | 1/4 | 495.05 | 1/4 | 793.58 | 1/4 | 1,111.88 | 1/4 | 1,443.07 | 1/4 | 1,774.49 | 1/4 | 2,105.90 | 1/4 | 2,437.32 | 1/4 | 2,768.73 | 1/4 | 3,100.10 |
| 1/2 | 221.83 | 1/2 | 501.08 | 1/2 | 800.00 | 1/2 | 1,118.73 | 1/2 | 1,449.97 | 1/2 | 1,781.39 | 1/2 | 2,112.81 | 1/2 | 2,444.22 | 1/2 | 2,775.64 | 1/2 | 3,107.00 |
| 3/4 | 227.44 | 3/4 | 507.10 | 3/4 | 806.42 | 3/4 | 1,125.58 | 3/4 | 1,456.88 | 3/4 | 1,788.29 | 3/4 | 2,119.71 | 3/4 | 2,451.13 | 3/4 | 2,782.54 | 3/4 | 3,113.90 |
| 11 | 233.05 | 11 | 513.13 | 11 | 812.84 | 11 | 1,132.44 | 11 | 1,463.78 | 11 | 1,795.20 | 11 | 2,126.62 | 11 | 2,458.03 | 11 | 2,789.44 | 11 | 3,120.81 |
| 1/4 | 238.70 | 1/4 | 519.19 | 1/4 | 819.30 | 1/4 | 1,139.32 | 1/4 | 1,470.69 | 1/4 | 1,802.10 | 1/4 | 2,133.52 | 1/4 | 2,464.94 | 1/4 | 2,796.35 | 1/4 | 3,127.71 |
| 1/2 | 244.34 | 1/2 | 525.24 | 1/2 | 825.75 | 1/2 | 1,146.21 | 1/2 | 1,477.59 | 1/2 | 1,809.01 | 1/2 | 2,140.42 | 1/2 | 2,471.84 | 1/2 | 2,803.25 | 1/2 | 3,134.61 |
| 3/4 | 249.99 | 3/4 | 531.30 | 3/4 | 832.21 | 3/4 | 1,153.10 | 3/4 | 1,484.50 | 3/4 | 1,815.91 | 3/4 | 2,147.33 | 3/4 | 2,478.74 | 3/4 | 2,810.15 | 3/4 | 3,141.52 |

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 TOP OF 2" DIAMETER HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 377"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 3,148.42 | 0 | 3,479.78 | 0 | 3,811.15 | 0 | 4,141.72 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,155.32 | 1/4 | 3,486.69 | 1/4 | 3,818.05 | 1/4 | 4,148.58 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,162.23 | 1/2 | 3,493.59 | 1/2 | 3,824.95 | 1/2 | 4,155.45 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,169.13 | 3/4 | 3,500.49 | 3/4 | 3,831.86 | 3/4 | 4,162.31 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,176.03 | 1 | 3,507.40 | 1 | 3,838.76 | 1 | 4,169.17 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,182.94 | 1/4 | 3,514.30 | 1/4 | 3,845.66 | 1/4 | 4,176.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,189.84 | 1/2 | 3,521.20 | 1/2 | 3,852.57 | 1/2 | 4,182.90 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,196.74 | 3/4 | 3,528.11 | 3/4 | 3,859.47 | 3/4 | 4,189.77 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,203.65 | 2 | 3,535.01 | 2 | 3,866.37 | 2 | 4,196.63 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,210.55 | 1/4 | 3,541.91 | 1/4 | 3,873.28 | 1/4 | 4,203.49 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,217.45 | 1/2 | 3,548.82 | 1/2 | 3,880.18 | 1/2 | 4,210.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,224.36 | 3/4 | 3,555.72 | 3/4 | 3,887.08 | 3/4 | 4,217.22 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,231.26 | 3 | 3,562.62 | 3 | 3,893.99 | 3 | 4,224.09 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,238.16 | 1/4 | 3,569.53 | 1/4 | 3,900.89 | 1/4 | 4,230.95 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,245.07 | 1/2 | 3,576.43 | 1/2 | 3,907.79 | 1/2 | 4,237.81 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,251.97 | 3/4 | 3,583.33 | 3/4 | 3,914.70 | 3/4 | 4,244.68 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,258.87 | 4 | 3,590.24 | 4 | 3,921.60 | 4 | 4,251.54 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,265.78 | 1/4 | 3,597.14 | 1/4 | 3,928.50 | 1/4 | 4,258.41 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,272.68 | 1/2 | 3,604.04 | 1/2 | 3,935.41 | 1/2 | 4,265.27 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,279.58 | 3/4 | 3,610.95 | 3/4 | 3,942.31 | 3/4 | 4,272.13 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,286.49 | 5 | 3,617.85 | 5 | 3,949.21 | 5 | 4,279.00 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,293.39 | 1/4 | 3,624.75 | 1/4 | 3,956.12 | 1/4 | 4,285.86 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,300.29 | 1/2 | 3,631.66 | 1/2 | 3,963.02 | 1/2 | 4,292.72 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,307.20 | 3/4 | 3,638.56 | 3/4 | 3,969.92 | 3/4 | 4,299.59 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,314.10 | 6 | 3,645.46 | 6 | 3,976.83 | 6 | 4,306.45 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,321.00 | 1/4 | 3,652.37 | 1/4 | 3,983.73 | 1/4 | 4,313.32 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,327.91 | 1/2 | 3,659.27 | 1/2 | 3,990.63 | 1/2 | 4,320.18 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,334.81 | 3/4 | 3,666.17 | 3/4 | 3,997.54 | 3/4 | 4,327.04 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,341.71 | 7 | 3,673.08 | 7 | 4,004.44 | 7 | 4,333.91 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,348.62 | 1/4 | 3,679.98 | 1/4 | 4,011.31 | 1/4 | 4,340.70 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,355.52 | 1/2 | 3,686.88 | 1/2 | 4,018.17 | 1/2 | 4,347.49 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,362.42 | 3/4 | 3,693.79 | 3/4 | 4,025.03 | 3/4 | 4,354.28 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,369.33 | 8 | 3,700.69 | 8 | 4,031.90 | 8 | 4,361.07 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,376.23 | 1/4 | 3,707.59 | 1/4 | 4,038.76 | 1/4 | 4,367.51 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,383.14 | 1/2 | 3,714.50 | 1/2 | 4,045.62 | 1/2 | 4,373.94 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,390.04 | 3/4 | 3,721.40 | 3/4 | 4,052.49 | 3/4 | 4,380.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,396.94 | 9 | 3,728.31 | 9 | 4,059.35 | 9 | 4,386.82 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,403.85 | 1/4 | 3,735.21 | 1/4 | 4,066.22 | 1/4 | 4,393.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,410.75 | 1/2 | 3,742.11 | 1/2 | 4,073.08 | 1/2 | 4,397.26 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,417.65 | 3/4 | 3,749.02 | 3/4 | 4,079.94 | 3/4 | 4,402.49 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,424.56 | 10 | 3,755.92 | 10 | 4,086.81 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,431.46 | 1/4 | 3,762.82 | 1/4 | 4,093.67 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,438.36 | 1/2 | 3,769.73 | 1/2 | 4,100.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,445.27 | 3/4 | 3,776.63 | 3/4 | 4,107.40 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,452.17 | 11 | 3,783.53 | 11 | 4,114.26 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,459.07 | 1/4 | 3,790.44 | 1/4 | 4,121.13 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,465.98 | 1/2 | 3,797.34 | 1/2 | 4,127.99 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,472.88 | 3/4 | 3,804.24 | 3/4 | 4,134.86 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 377"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

| 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 | 18.86 | 0 | 396.53 | 0 | 774.33 | 0 | 1,157.46 | 0 | 1,545.56 | 0 | 1,933.65 | 0 | 2,321.75 | 0 | 2,709.85 | 0 | 3,097.95 | 0 | 3,486.04 |
| 1/4 | 24.63 | 1/4 | 404.61 | 1/4 | 782.10 | 1/4 | 1,165.54 | 1/4 | 1,553.64 | 1/4 | 1,941.74 | 1/4 | 2,329.84 | 1/4 | 2,717.94 | 1/4 | 3,106.04 | 1/4 | 3,494.13 |
| 1/2 | 30.41 | 1/2 | 412.70 | 1/2 | 789.86 | 1/2 | 1,173.63 | 1/2 | 1,561.73 | 1/2 | 1,949.83 | 1/2 | 2,337.92 | 1/2 | 2,726.02 | 1/2 | 3,114.12 | 1/2 | 3,502.21 |
| 3/4 | 36.18 | 3/4 | 420.78 | 3/4 | 797.62 | 3/4 | 1,181.71 | 3/4 | 1,569.81 | 3/4 | 1,957.91 | 3/4 | 2,346.01 | 3/4 | 2,734.11 | 3/4 | 3,122.21 | 3/4 | 3,510.29 |
| 1 | 41.95 | 1 | 428.87 | 1 | 805.39 | 1 | 1,189.80 | 1 | 1,577.90 | 1 | 1,966.00 | 1 | 2,354.10 | 1 | 2,742.19 | 1 | 3,130.29 | 1 | 3,518.38 |
| 1/4 | 49.75 | 1/4 | 436.95 | 1/4 | 813.16 | 1/4 | 1,197.88 | 1/4 | 1,585.98 | 1/4 | 1,974.08 | 1/4 | 2,362.18 | 1/4 | 2,750.28 | 1/4 | 3,138.38 | 1/4 | 3,526.46 |
| 1/2 | 57.55 | 1/2 | 445.04 | 1/2 | 820.94 | 1/2 | 1,205.97 | 1/2 | 1,594.07 | 1/2 | 1,982.17 | 1/2 | 2,370.27 | 1/2 | 2,758.37 | 1/2 | 3,146.46 | 1/2 | 3,534.55 |
| 3/4 | 65.34 | 3/4 | 453.12 | 3/4 | 828.71 | 3/4 | 1,214.05 | 3/4 | 1,602.15 | 3/4 | 1,990.25 | 3/4 | 2,378.35 | 3/4 | 2,766.45 | 3/4 | 3,154.55 | 3/4 | 3,542.63 |
| 2 | 73.14 | 2 | 461.21 | 2 | 836.48 | 2 | 1,222.14 | 2 | 1,610.24 | 2 | 1,998.34 | 2 | 2,386.44 | 2 | 2,774.54 | 2 | 3,162.64 | 2 | 3,550.72 |
| 1/4 | 81.22 | 1/4 | 469.29 | 1/4 | 844.26 | 1/4 | 1,230.23 | 1/4 | 1,618.32 | 1/4 | 2,006.42 | 1/4 | 2,394.52 | 1/4 | 2,782.62 | 1/4 | 3,170.72 | 1/4 | 3,558.80 |
| 1/2 | 89.31 | 1/2 | 477.38 | 1/2 | 852.04 | 1/2 | 1,238.31 | 1/2 | 1,626.41 | 1/2 | 2,014.51 | 1/2 | 2,402.61 | 1/2 | 2,790.71 | 1/2 | 3,178.81 | 1/2 | 3,566.88 |
| 3/4 | 97.39 | 3/4 | 485.46 | 3/4 | 859.82 | 3/4 | 1,246.40 | 3/4 | 1,634.50 | 3/4 | 2,022.59 | 3/4 | 2,410.69 | 3/4 | 2,798.79 | 3/4 | 3,186.89 | 3/4 | 3,574.97 |
| 3 | 105.48 | 3 | 493.55 | 3 | 867.60 | 3 | 1,254.48 | 3 | 1,642.58 | 3 | 2,030.68 | 3 | 2,418.78 | 3 | 2,806.88 | 3 | 3,194.98 | 3 | 3,583.05 |
| 1/4 | 113.56 | 1/4 | 501.63 | 1/4 | 875.38 | 1/4 | 1,262.57 | 1/4 | 1,650.67 | 1/4 | 2,038.77 | 1/4 | 2,426.86 | 1/4 | 2,814.96 | 1/4 | 3,203.06 | 1/4 | 3,591.14 |
| 1/2 | 121.65 | 1/2 | 509.72 | 1/2 | 883.16 | 1/2 | 1,270.65 | 1/2 | 1,658.75 | 1/2 | 2,046.85 | 1/2 | 2,434.95 | 1/2 | 2,823.05 | 1/2 | 3,211.15 | 1/2 | 3,599.22 |
| 3/4 | 129.73 | 3/4 | 517.80 | 3/4 | 890.94 | 3/4 | 1,278.74 | 3/4 | 1,666.84 | 3/4 | 2,054.94 | 3/4 | 2,443.04 | 3/4 | 2,831.13 | 3/4 | 3,219.23 | 3/4 | 3,607.31 |
| 4 | 137.82 | 4 | 525.89 | 4 | 898.72 | 4 | 1,286.82 | 4 | 1,674.92 | 4 | 2,063.02 | 4 | 2,451.12 | 4 | 2,839.22 | 4 | 3,227.32 | 4 | 3,615.39 |
| 1/4 | 145.90 | 1/4 | 533.66 | 1/4 | 906.81 | 1/4 | 1,294.91 | 1/4 | 1,683.01 | 1/4 | 2,071.11 | 1/4 | 2,459.21 | 1/4 | 2,847.31 | 1/4 | 3,235.40 | 1/4 | 3,623.47 |
| 1/2 | 153.99 | 1/2 | 541.43 | 1/2 | 914.89 | 1/2 | 1,302.99 | 1/2 | 1,691.09 | 1/2 | 2,079.19 | 1/2 | 2,467.29 | 1/2 | 2,855.39 | 1/2 | 3,243.49 | 1/2 | 3,631.56 |
| 3/4 | 162.07 | 3/4 | 549.21 | 3/4 | 922.98 | 3/4 | 1,311.08 | 3/4 | 1,699.18 | 3/4 | 2,087.28 | 3/4 | 2,475.38 | 3/4 | 2,863.48 | 3/4 | 3,251.58 | 3/4 | 3,639.64 |
| 5 | 170.16 | 5 | 556.98 | 5 | 931.07 | 5 | 1,319.16 | 5 | 1,707.26 | 5 | 2,095.36 | 5 | 2,483.46 | 5 | 2,871.56 | 5 | 3,259.66 | 5 | 3,647.73 |
| 1/4 | 178.24 | 1/4 | 564.74 | 1/4 | 939.15 | 1/4 | 1,327.25 | 1/4 | 1,715.35 | 1/4 | 2,103.45 | 1/4 | 2,491.55 | 1/4 | 2,879.65 | 1/4 | 3,267.75 | 1/4 | 3,655.81 |
| 1/2 | 186.32 | 1/2 | 572.51 | 1/2 | 947.24 | 1/2 | 1,335.34 | 1/2 | 1,723.43 | 1/2 | 2,111.53 | 1/2 | 2,499.63 | 1/2 | 2,887.73 | 1/2 | 3,275.83 | 1/2 | 3,663.89 |
| 3/4 | 194.41 | 3/4 | 580.27 | 3/4 | 955.32 | 3/4 | 1,343.42 | 3/4 | 1,731.52 | 3/4 | 2,119.62 | 3/4 | 2,507.72 | 3/4 | 2,895.82 | 3/4 | 3,283.92 | 3/4 | 3,671.98 |
| 6 | 202.49 | 6 | 588.03 | 6 | 963.41 | 6 | 1,351.51 | 6 | 1,739.61 | 6 | 2,127.70 | 6 | 2,515.80 | 6 | 2,903.90 | 6 | 3,292.00 | 6 | 3,680.06 |
| 1/4 | 210.58 | 1/4 | 595.80 | 1/4 | 971.49 | 1/4 | 1,359.59 | 1/4 | 1,747.69 | 1/4 | 2,135.79 | 1/4 | 2,523.89 | 1/4 | 2,911.99 | 1/4 | 3,300.09 | 1/4 | 3,688.15 |
| 1/2 | 218.66 | 1/2 | 603.56 | 1/2 | 979.58 | 1/2 | 1,367.68 | 1/2 | 1,755.78 | 1/2 | 2,143.88 | 1/2 | 2,531.97 | 1/2 | 2,920.07 | 1/2 | 3,308.17 | 1/2 | 3,696.23 |
| 3/4 | 226.75 | 3/4 | 611.33 | 3/4 | 987.66 | 3/4 | 1,375.76 | 3/4 | 1,763.86 | 3/4 | 2,151.96 | 3/4 | 2,540.06 | 3/4 | 2,928.16 | 3/4 | 3,316.26 | 3/4 | 3,704.32 |
| 7 | 234.83 | 7 | 619.09 | 7 | 995.75 | 7 | 1,383.85 | 7 | 1,771.95 | 7 | 2,160.05 | 7 | 2,548.15 | 7 | 2,936.24 | 7 | 3,324.34 | 7 | 3,712.40 |
| 1/4 | 242.92 | 1/4 | 626.85 | 1/4 | 1,003.83 | 1/4 | 1,391.93 | 1/4 | 1,780.03 | 1/4 | 2,168.13 | 1/4 | 2,556.23 | 1/4 | 2,944.33 | 1/4 | 3,332.43 | 1/4 | 3,720.48 |
| 1/2 | 251.00 | 1/2 | 634.62 | 1/2 | 1,011.92 | 1/2 | 1,400.02 | 1/2 | 1,788.12 | 1/2 | 2,176.22 | 1/2 | 2,564.32 | 1/2 | 2,952.42 | 1/2 | 3,340.51 | 1/2 | 3,728.57 |
| 3/4 | 259.09 | 3/4 | 642.38 | 3/4 | 1,020.00 | 3/4 | 1,408.10 | 3/4 | 1,796.20 | 3/4 | 2,184.30 | 3/4 | 2,572.40 | 3/4 | 2,960.50 | 3/4 | 3,348.60 | 3/4 | 3,736.65 |
| 8 | 267.17 | 8 | 650.15 | 8 | 1,028.09 | 8 | 1,416.19 | 8 | 1,804.29 | 8 | 2,192.39 | 8 | 2,580.49 | 8 | 2,968.59 | 8 | 3,356.69 | 8 | 3,744.74 |
| 1/4 | 275.26 | 1/4 | 657.90 | 1/4 | 1,036.18 | 1/4 | 1,424.27 | 1/4 | 1,812.37 | 1/4 | 2,200.47 | 1/4 | 2,588.57 | 1/4 | 2,976.67 | 1/4 | 3,364.77 | 1/4 | 3,752.82 |
| 1/2 | 283.34 | 1/2 | 665.66 | 1/2 | 1,044.26 | 1/2 | 1,432.36 | 1/2 | 1,820.46 | 1/2 | 2,208.56 | 1/2 | 2,596.66 | 1/2 | 2,984.76 | 1/2 | 3,372.86 | 1/2 | 3,760.90 |
| 3/4 | 291.43 | 3/4 | 673.42 | 3/4 | 1,052.35 | 3/4 | 1,440.45 | 3/4 | 1,828.54 | 3/4 | 2,216.64 | 3/4 | 2,604.74 | 3/4 | 2,992.84 | 3/4 | 3,380.94 | 3/4 | 3,768.99 |
| 9 | 299.51 | 9 | 681.18 | 9 | 1,060.43 | 9 | 1,448.53 | 9 | 1,836.63 | 9 | 2,224.73 | 9 | 2,612.83 | 9 | 3,000.93 | 9 | 3,389.03 | 9 | 3,777.07 |
| 1/4 | 307.60 | 1/4 | 688.94 | 1/4 | 1,068.52 | 1/4 | 1,456.62 | 1/4 | 1,844.72 | 1/4 | 2,232.81 | 1/4 | 2,620.91 | 1/4 | 3,009.01 | 1/4 | 3,397.11 | 1/4 | 3,785.16 |
| 1/2 | 315.68 | 1/2 | 696.70 | 1/2 | 1,076.60 | 1/2 | 1,464.70 | 1/2 | 1,852.80 | 1/2 | 2,240.90 | 1/2 | 2,629.00 | 1/2 | 3,017.10 | 1/2 | 3,405.20 | 1/2 | 3,793.24 |
| 3/4 | 323.77 | 3/4 | 704.46 | 3/4 | 1,084.69 | 3/4 | 1,472.79 | 3/4 | 1,860.89 | 3/4 | 2,248.99 | 3/4 | 2,637.08 | 3/4 | 3,025.18 | 3/4 | 3,413.28 | 3/4 | 3,801.33 |
| 10 | 331.85 | 10 | 712.22 | 10 | 1,092.77 | 10 | 1,480.87 | 10 | 1,868.97 | 10 | 2,257.07 | 10 | 2,645.17 | 10 | 3,033.27 | 10 | 3,421.37 | 10 | 3,809.41 |
| 1/4 | 339.94 | 1/4 | 719.98 | 1/4 | 1,100.86 | 1/4 | 1,488.96 | 1/4 | 1,877.06 | 1/4 | 2,265.16 | 1/4 | 2,653.26 | 1/4 | 3,041.35 | 1/4 | 3,429.45 | 1/4 | 3,817.49 |
| 1/2 | 348.02 | 1/2 | 727.75 | 1/2 | 1,108.94 | 1/2 | 1,497.04 | 1/2 | 1,885.14 | 1/2 | 2,273.24 | 1/2 | 2,661.34 | 1/2 | 3,049.44 | 1/2 | 3,437.54 | 1/2 | 3,825.58 |
| 3/4 | 356.11 | 3/4 | 735.51 | 3/4 | 1,117.03 | 3/4 | 1,505.13 | 3/4 | 1,893.23 | 3/4 | 2,281.33 | 3/4 | 2,669.43 | 3/4 | 3,057.53 | 3/4 | 3,445.62 | 3/4 | 3,833.66 |
| 11 | 364.19 | 11 | 743.28 | 11 | 1,125.12 | 11 | 1,513.21 | 11 | 1,901.31 | 11 | 2,289.41 | 11 | 2,677.51 | 11 | 3,065.61 | 11 | 3,453.71 | 11 | 3,841.75 |
| 1/4 | 372.28 | 1/4 | 751.04 | 1/4 | 1,133.20 | 1/4 | 1,521.30 | 1/4 | 1,909.40 | 1/4 | 2,297.50 | 1/4 | 2,685.60 | 1/4 | 3,073.70 | 1/4 | 3,461.79 | 1/4 | 3,849.83 |
| 1/2 | 380.36 | 1/2 | 758.80 | 1/2 | 1,141.29 | 1/2 | 1,529.39 | 1/2 | 1,917.48 | 1/2 | 2,305.58 | 1/2 | 2,693.68 | 1/2 | 3,081.78 | 1/2 | 3,469.87 | 1/2 | 3,857.92 |
| 3/4 | 388.44 | 3/4 | 766.57 | 3/4 | 1,149.37 | 3/4 | 1,537.47 | 3/4 | 1,925.57 | 3/4 | 2,313.67 | 3/4 | 2,701.77 | 3/4 | 3,089.87 | 3/4 | 3,477.96 | 3/4 | 3,866.00 |

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 TOP OF 2" DIAMETER HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "EMS 377"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

| 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 | 3,874.08 | 0 | 4,262.13 | 0 | 4,650.17 | 0 | 5,037.27 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,882.17 | 1/4 | 4,270.21 | 1/4 | 4,658.25 | 1/4 | 5,045.31 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,890.25 | 1/2 | 4,278.29 | 1/2 | 4,666.34 | 1/2 | 5,053.35 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,898.34 | 3/4 | 4,286.38 | 3/4 | 4,674.42 | 3/4 | 5,061.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,906.42 | 1 | 4,294.46 | 1 | 4,682.50 | 1 | 5,069.42 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,914.50 | 1/4 | 4,302.55 | 1/4 | 4,690.59 | 1/4 | 5,077.46 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,922.59 | 1/2 | 4,310.63 | 1/2 | 4,698.67 | 1/2 | 5,085.50 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,930.67 | 3/4 | 4,318.71 | 3/4 | 4,706.76 | 3/4 | 5,093.53 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,938.76 | 2 | 4,326.80 | 2 | 4,714.84 | 2 | 5,101.57 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,946.84 | 1/4 | 4,334.88 | 1/4 | 4,722.92 | 1/4 | 5,109.61 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,954.93 | 1/2 | 4,342.97 | 1/2 | 4,731.01 | 1/2 | 5,117.65 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,963.01 | 3/4 | 4,351.05 | 3/4 | 4,739.09 | 3/4 | 5,125.68 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,971.09 | 3 | 4,359.14 | 3 | 4,747.18 | 3 | 5,133.72 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,979.18 | 1/4 | 4,367.22 | 1/4 | 4,755.26 | 1/4 | 5,141.76 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,987.26 | 1/2 | 4,375.30 | 1/2 | 4,763.35 | 1/2 | 5,149.80 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,995.35 | 3/4 | 4,383.39 | 3/4 | 4,771.43 | 3/4 | 5,157.83 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 4,003.43 | 4 | 4,391.47 | 4 | 4,779.51 | 4 | 5,165.87 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 4,011.52 | 1/4 | 4,399.56 | 1/4 | 4,787.60 | 1/4 | 5,173.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,019.60 | 1/2 | 4,407.64 | 1/2 | 4,795.68 | 1/2 | 5,181.95 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,027.68 | 3/4 | 4,415.73 | 3/4 | 4,803.77 | 3/4 | 5,189.98 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 4,035.77 | 5 | 4,423.81 | 5 | 4,811.85 | 5 | 5,198.02 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 4,043.85 | 1/4 | 4,431.89 | 1/4 | 4,819.94 | 1/4 | 5,206.06 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,051.94 | 1/2 | 4,439.98 | 1/2 | 4,828.02 | 1/2 | 5,214.10 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,060.02 | 3/4 | 4,448.06 | 3/4 | 4,836.10 | 3/4 | 5,222.13 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 4,068.10 | 6 | 4,456.15 | 6 | 4,844.19 | 6 | 5,230.17 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 4,076.19 | 1/4 | 4,464.23 | 1/4 | 4,852.27 | 1/4 | 5,238.21 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,084.27 | 1/2 | 4,472.31 | 1/2 | 4,860.36 | 1/2 | 5,246.24 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,092.36 | 3/4 | 4,480.40 | 3/4 | 4,868.44 | 3/4 | 5,254.28 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 4,100.44 | 7 | 4,488.48 | 7 | 4,876.52 | 7 | 5,262.32 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 4,108.53 | 1/4 | 4,496.57 | 1/4 | 4,884.56 | 1/4 | 5,270.27 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,116.61 | 1/2 | 4,504.65 | 1/2 | 4,892.60 | 1/2 | 5,278.22 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,124.69 | 3/4 | 4,512.74 | 3/4 | 4,900.64 | 3/4 | 5,286.17 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 4,132.78 | 8 | 4,520.82 | 8 | 4,908.67 | 8 | 5,294.12 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 4,140.86 | 1/4 | 4,528.90 | 1/4 | 4,916.71 | 1/4 | 5,301.66 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,148.95 | 1/2 | 4,536.99 | 1/2 | 4,924.75 | 1/2 | 5,309.20 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,157.03 | 3/4 | 4,545.07 | 3/4 | 4,932.79 | 3/4 | 5,316.74 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 4,165.11 | 9 | 4,553.16 | 9 | 4,940.82 | 9 | 5,324.28 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 4,173.20 | 1/4 | 4,561.24 | 1/4 | 4,948.86 | 1/4 | 5,330.39 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,181.28 | 1/2 | 4,569.32 | 1/2 | 4,956.90 | 1/2 | 5,336.50 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,189.37 | 3/4 | 4,577.41 | 3/4 | 4,964.94 | 3/4 | 5,342.62 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 4,197.45 | 10 | 4,585.49 | 10 | 4,972.97 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 4,205.54 | 1/4 | 4,593.58 | 1/4 | 4,981.01 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,213.62 | 1/2 | 4,601.66 | 1/2 | 4,989.05 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,221.70 | 3/4 | 4,609.75 | 3/4 | 4,997.09 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 4,229.79 | 11 | 4,617.83 | 11 | 5,005.12 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 4,237.87 | 1/4 | 4,625.91 | 1/4 | 5,013.16 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,245.96 | 1/2 | 4,634.00 | 1/2 | 5,021.20 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,254.04 | 3/4 | 4,642.08 | 3/4 | 5,029.24 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

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



BARGE "EMS 377"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 18.85 | 0 | 396.40 | 0 | 784.02 | 0 | 1,171.95 | 0 | 1,559.92 | 0 | 1,947.89 | 0 | 2,335.86 | 0 | 2,723.83 | 0 | 3,111.80 | 0 | 3,499.76 |
| 1/4 | 24.62 | 1/4 | 404.48 | 1/4 | 792.10 | 1/4 | 1,180.03 | 1/4 | 1,568.00 | 1/4 | 1,955.97 | 1/4 | 2,343.94 | 1/4 | 2,731.91 | 1/4 | 3,119.88 | 1/4 | 3,507.84 |
| 1/2 | 30.40 | 1/2 | 412.56 | 1/2 | 800.17 | 1/2 | 1,188.12 | 1/2 | 1,576.09 | 1/2 | 1,964.06 | 1/2 | 2,352.03 | 1/2 | 2,739.99 | 1/2 | 3,127.96 | 1/2 | 3,515.92 |
| 3/4 | 36.17 | 3/4 | 420.64 | 3/4 | 808.24 | 3/4 | 1,196.20 | 3/4 | 1,584.17 | 3/4 | 1,972.14 | 3/4 | 2,360.11 | 3/4 | 2,748.08 | 3/4 | 3,136.05 | 3/4 | 3,524.00 |
| 1 | 41.94 | 1 | 428.73 | 1 | 816.31 | 1 | 1,204.28 | 1 | 1,592.25 | 1 | 1,980.22 | 1 | 2,368.19 | 1 | 2,756.16 | 1 | 3,144.13 | 1 | 3,532.09 |
| 1/4 | 49.73 | 1/4 | 436.81 | 1/4 | 824.40 | 1/4 | 1,212.36 | 1/4 | 1,600.33 | 1/4 | 1,988.30 | 1/4 | 2,376.27 | 1/4 | 2,764.24 | 1/4 | 3,152.21 | 1/4 | 3,540.17 |
| 1/2 | 57.53 | 1/2 | 444.89 | 1/2 | 832.48 | 1/2 | 1,220.45 | 1/2 | 1,608.42 | 1/2 | 1,996.39 | 1/2 | 2,384.36 | 1/2 | 2,772.33 | 1/2 | 3,160.30 | 1/2 | 3,548.25 |
| 3/4 | 65.32 | 3/4 | 452.97 | 3/4 | 840.56 | 3/4 | 1,228.53 | 3/4 | 1,616.50 | 3/4 | 2,004.47 | 3/4 | 2,392.44 | 3/4 | 2,780.41 | 3/4 | 3,168.38 | 3/4 | 3,556.33 |
| 2 | 73.11 | 2 | 461.05 | 2 | 848.64 | 2 | 1,236.61 | 2 | 1,624.58 | 2 | 2,012.55 | 2 | 2,400.52 | 2 | 2,788.49 | 2 | 3,176.46 | 2 | 3,564.41 |
| 1/4 | 81.19 | 1/4 | 469.14 | 1/4 | 856.73 | 1/4 | 1,244.70 | 1/4 | 1,632.67 | 1/4 | 2,020.63 | 1/4 | 2,408.60 | 1/4 | 2,796.57 | 1/4 | 3,184.54 | 1/4 | 3,572.49 |
| 1/2 | 89.28 | 1/2 | 477.22 | 1/2 | 864.81 | 1/2 | 1,252.78 | 1/2 | 1,640.75 | 1/2 | 2,028.72 | 1/2 | 2,416.69 | 1/2 | 2,804.66 | 1/2 | 3,192.63 | 1/2 | 3,580.57 |
| 3/4 | 97.36 | 3/4 | 485.30 | 3/4 | 872.89 | 3/4 | 1,260.86 | 3/4 | 1,648.83 | 3/4 | 2,036.80 | 3/4 | 2,424.77 | 3/4 | 2,812.74 | 3/4 | 3,200.71 | 3/4 | 3,588.66 |
| 3 | 105.44 | 3 | 493.38 | 3 | 880.97 | 3 | 1,268.94 | 3 | 1,656.91 | 3 | 2,044.88 | 3 | 2,432.85 | 3 | 2,820.82 | 3 | 3,208.79 | 3 | 3,596.74 |
| 1/4 | 113.52 | 1/4 | 501.46 | 1/4 | 889.06 | 1/4 | 1,277.03 | 1/4 | 1,665.00 | 1/4 | 2,052.97 | 1/4 | 2,440.94 | 1/4 | 2,828.90 | 1/4 | 3,216.87 | 1/4 | 3,604.82 |
| 1/2 | 121.61 | 1/2 | 509.55 | 1/2 | 897.14 | 1/2 | 1,285.11 | 1/2 | 1,673.08 | 1/2 | 2,061.05 | 1/2 | 2,449.02 | 1/2 | 2,836.99 | 1/2 | 3,224.96 | 1/2 | 3,612.90 |
| 3/4 | 129.69 | 3/4 | 517.63 | 3/4 | 905.22 | 3/4 | 1,293.19 | 3/4 | 1,681.16 | 3/4 | 2,069.13 | 3/4 | 2,457.10 | 3/4 | 2,845.07 | 3/4 | 3,233.04 | 3/4 | 3,620.98 |
| 4 | 137.77 | 4 | 525.71 | 4 | 913.30 | 4 | 1,301.27 | 4 | 1,689.24 | 4 | 2,077.21 | 4 | 2,465.18 | 4 | 2,853.15 | 4 | 3,241.12 | 4 | 3,629.06 |
| 1/4 | 145.85 | 1/4 | 533.79 | 1/4 | 921.39 | 1/4 | 1,309.36 | 1/4 | 1,697.33 | 1/4 | 2,085.30 | 1/4 | 2,473.27 | 1/4 | 2,861.24 | 1/4 | 3,249.21 | 1/4 | 3,637.14 |
| 1/2 | 153.93 | 1/2 | 541.87 | 1/2 | 929.47 | 1/2 | 1,317.44 | 1/2 | 1,705.41 | 1/2 | 2,093.38 | 1/2 | 2,481.35 | 1/2 | 2,869.32 | 1/2 | 3,257.29 | 1/2 | 3,645.23 |
| 3/4 | 162.02 | 3/4 | 549.96 | 3/4 | 937.55 | 3/4 | 1,325.52 | 3/4 | 1,713.49 | 3/4 | 2,101.46 | 3/4 | 2,489.43 | 3/4 | 2,877.40 | 3/4 | 3,265.37 | 3/4 | 3,653.31 |
| 5 | 170.10 | 5 | 558.04 | 5 | 945.64 | 5 | 1,333.61 | 5 | 1,721.57 | 5 | 2,109.54 | 5 | 2,497.51 | 5 | 2,885.48 | 5 | 3,273.45 | 5 | 3,661.39 |
| 1/4 | 178.18 | 1/4 | 566.11 | 1/4 | 953.72 | 1/4 | 1,341.69 | 1/4 | 1,729.66 | 1/4 | 2,117.63 | 1/4 | 2,505.60 | 1/4 | 2,893.57 | 1/4 | 3,281.54 | 1/4 | 3,669.47 |
| 1/2 | 186.26 | 1/2 | 574.18 | 1/2 | 961.80 | 1/2 | 1,349.77 | 1/2 | 1,737.74 | 1/2 | 2,125.71 | 1/2 | 2,513.68 | 1/2 | 2,901.65 | 1/2 | 3,289.62 | 1/2 | 3,677.55 |
| 3/4 | 194.34 | 3/4 | 582.25 | 3/4 | 969.88 | 3/4 | 1,357.85 | 3/4 | 1,745.82 | 3/4 | 2,133.79 | 3/4 | 2,521.76 | 3/4 | 2,909.73 | 3/4 | 3,297.70 | 3/4 | 3,685.63 |
| 6 | 202.43 | 6 | 590.33 | 6 | 977.97 | 6 | 1,365.94 | 6 | 1,753.91 | 6 | 2,141.88 | 6 | 2,529.84 | 6 | 2,917.81 | 6 | 3,305.78 | 6 | 3,693.72 |
| 1/4 | 210.51 | 1/4 | 598.40 | 1/4 | 986.05 | 1/4 | 1,374.02 | 1/4 | 1,761.99 | 1/4 | 2,149.96 | 1/4 | 2,537.93 | 1/4 | 2,925.90 | 1/4 | 3,313.87 | 1/4 | 3,701.80 |
| 1/2 | 218.59 | 1/2 | 606.47 | 1/2 | 994.13 | 1/2 | 1,382.10 | 1/2 | 1,770.07 | 1/2 | 2,158.04 | 1/2 | 2,546.01 | 1/2 | 2,933.98 | 1/2 | 3,321.95 | 1/2 | 3,709.88 |
| 3/4 | 226.67 | 3/4 | 614.54 | 3/4 | 1,002.21 | 3/4 | 1,390.18 | 3/4 | 1,778.15 | 3/4 | 2,166.12 | 3/4 | 2,554.09 | 3/4 | 2,942.06 | 3/4 | 3,330.03 | 3/4 | 3,717.96 |
| 7 | 234.75 | 7 | 622.61 | 7 | 1,010.30 | 7 | 1,398.27 | 7 | 1,786.24 | 7 | 2,174.21 | 7 | 2,562.18 | 7 | 2,950.15 | 7 | 3,338.11 | 7 | 3,726.04 |
| 1/4 | 242.84 | 1/4 | 630.69 | 1/4 | 1,018.38 | 1/4 | 1,406.35 | 1/4 | 1,794.32 | 1/4 | 2,182.29 | 1/4 | 2,570.26 | 1/4 | 2,958.23 | 1/4 | 3,346.20 | 1/4 | 3,734.12 |
| 1/2 | 250.92 | 1/2 | 638.76 | 1/2 | 1,026.46 | 1/2 | 1,414.43 | 1/2 | 1,802.40 | 1/2 | 2,190.37 | 1/2 | 2,578.34 | 1/2 | 2,966.31 | 1/2 | 3,354.28 | 1/2 | 3,742.20 |
| 3/4 | 259.00 | 3/4 | 646.83 | 3/4 | 1,034.55 | 3/4 | 1,422.51 | 3/4 | 1,810.48 | 3/4 | 2,198.45 | 3/4 | 2,586.42 | 3/4 | 2,974.39 | 3/4 | 3,362.36 | 3/4 | 3,750.29 |
| 8 | 267.08 | 8 | 654.90 | 8 | 1,042.63 | 8 | 1,430.60 | 8 | 1,818.57 | 8 | 2,206.54 | 8 | 2,594.51 | 8 | 2,982.48 | 8 | 3,370.45 | 8 | 3,758.37 |
| 1/4 | 275.17 | 1/4 | 662.97 | 1/4 | 1,050.71 | 1/4 | 1,438.68 | 1/4 | 1,826.65 | 1/4 | 2,214.62 | 1/4 | 2,602.59 | 1/4 | 2,990.56 | 1/4 | 3,378.53 | 1/4 | 3,766.45 |
| 1/2 | 283.25 | 1/2 | 671.04 | 1/2 | 1,058.79 | 1/2 | 1,446.76 | 1/2 | 1,834.73 | 1/2 | 2,222.70 | 1/2 | 2,610.67 | 1/2 | 2,998.64 | 1/2 | 3,386.61 | 1/2 | 3,774.53 |
| 3/4 | 291.33 | 3/4 | 679.11 | 3/4 | 1,066.88 | 3/4 | 1,454.85 | 3/4 | 1,842.82 | 3/4 | 2,230.78 | 3/4 | 2,618.75 | 3/4 | 3,006.72 | 3/4 | 3,394.69 | 3/4 | 3,782.61 |
| 9 | 299.41 | 9 | 687.17 | 9 | 1,074.96 | 9 | 1,462.93 | 9 | 1,850.90 | 9 | 2,238.87 | 9 | 2,626.84 | 9 | 3,014.81 | 9 | 3,402.78 | 9 | 3,790.69 |
| 1/4 | 307.49 | 1/4 | 695.24 | 1/4 | 1,083.04 | 1/4 | 1,471.01 | 1/4 | 1,858.98 | 1/4 | 2,246.95 | 1/4 | 2,634.92 | 1/4 | 3,022.89 | 1/4 | 3,410.86 | 1/4 | 3,798.77 |
| 1/2 | 315.58 | 1/2 | 703.31 | 1/2 | 1,091.12 | 1/2 | 1,479.09 | 1/2 | 1,867.06 | 1/2 | 2,255.03 | 1/2 | 2,643.00 | 1/2 | 3,030.97 | 1/2 | 3,418.94 | 1/2 | 3,806.86 |
| 3/4 | 323.66 | 3/4 | 711.38 | 3/4 | 1,099.21 | 3/4 | 1,487.18 | 3/4 | 1,875.15 | 3/4 | 2,263.12 | 3/4 | 2,651.09 | 3/4 | 3,039.05 | 3/4 | 3,427.02 | 3/4 | 3,814.94 |
| 10 | 331.74 | 10 | 719.44 | 10 | 1,107.29 | 10 | 1,495.26 | 10 | 1,883.23 | 10 | 2,271.20 | 10 | 2,659.17 | 10 | 3,047.14 | 10 | 3,435.11 | 10 | 3,823.02 |
| 1/4 | 339.82 | 1/4 | 727.52 | 1/4 | 1,115.37 | 1/4 | 1,503.34 | 1/4 | 1,891.31 | 1/4 | 2,279.28 | 1/4 | 2,667.25 | 1/4 | 3,055.22 | 1/4 | 3,443.19 | 1/4 | 3,831.10 |
| 1/2 | 347.90 | 1/2 | 735.59 | 1/2 | 1,123.46 | 1/2 | 1,511.42 | 1/2 | 1,899.39 | 1/2 | 2,287.36 | 1/2 | 2,675.33 | 1/2 | 3,063.30 | 1/2 | 3,451.27 | 1/2 | 3,839.18 |
| 3/4 | 355.99 | 3/4 | 743.66 | 3/4 | 1,131.54 | 3/4 | 1,519.51 | 3/4 | 1,907.48 | 3/4 | 2,295.45 | 3/4 | 2,683.42 | 3/4 | 3,071.39 | 3/4 | 3,459.35 | 3/4 | 3,847.26 |
| 11 | 364.07 | 11 | 751.73 | 11 | 1,139.62 | 11 | 1,527.59 | 11 | 1,915.56 | 11 | 2,303.53 | 11 | 2,691.50 | 11 | 3,079.47 | 11 | 3,467.43 | 11 | 3,855.35 |
| 1/4 | 372.15 | 1/4 | 759.81 | 1/4 | 1,147.70 | 1/4 | 1,535.67 | 1/4 | 1,923.64 | 1/4 | 2,311.61 | 1/4 | 2,699.58 | 1/4 | 3,087.55 | 1/4 | 3,475.51 | 1/4 | 3,863.43 |
| 1/2 | 380.23 | 1/2 | 767.88 | 1/2 | 1,155.79 | 1/2 | 1,543.76 | 1/2 | 1,931.72 | 1/2 | 2,319.69 | 1/2 | 2,707.66 | 1/2 | 3,095.63 | 1/2 | 3,483.60 | 1/2 | 3,871.51 |
| 3/4 | 388.31 | 3/4 | 775.95 | 3/4 | 1,163.87 | 3/4 | 1,551.84 | 3/4 | 1,939.81 | 3/4 | 2,327.78 | 3/4 | 2,715.75 | 3/4 | 3,103.72 | 3/4 | 3,491.68 | 3/4 | 3,879.59 |

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 TOP OF 2" DIAMETER HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 377"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
| IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | |
| 0 | 3,887.67 | 0 | 4,275.58 | 0 | 4,663.50 | 0 | 5,050.47 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,895.75 | 1/4 | 4,283.66 | 1/4 | 4,671.58 | 1/4 | 5,058.50 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,903.83 | 1/2 | 4,291.75 | 1/2 | 4,679.66 | 1/2 | 5,066.53 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,911.92 | 3/4 | 4,299.83 | 3/4 | 4,687.74 | 3/4 | 5,074.57 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,920.00 | 1 | 4,307.91 | 1 | 4,695.82 | 1 | 5,082.60 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,928.08 | 1/4 | 4,315.99 | 1/4 | 4,703.90 | 1/4 | 5,090.64 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,936.16 | 1/2 | 4,324.07 | 1/2 | 4,711.98 | 1/2 | 5,098.67 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,944.24 | 3/4 | 4,332.15 | 3/4 | 4,720.07 | 3/4 | 5,106.71 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,952.32 | 2 | 4,340.24 | 2 | 4,728.15 | 2 | 5,114.74 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,960.40 | 1/4 | 4,348.32 | 1/4 | 4,736.23 | 1/4 | 5,122.77 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,968.49 | 1/2 | 4,356.40 | 1/2 | 4,744.31 | 1/2 | 5,130.81 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,976.57 | 3/4 | 4,364.48 | 3/4 | 4,752.39 | 3/4 | 5,138.84 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,984.65 | 3 | 4,372.56 | 3 | 4,760.47 | 3 | 5,146.88 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,992.73 | 1/4 | 4,380.64 | 1/4 | 4,768.55 | 1/4 | 5,154.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,000.81 | 1/2 | 4,388.72 | 1/2 | 4,776.64 | 1/2 | 5,162.95 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,008.89 | 3/4 | 4,396.81 | 3/4 | 4,784.72 | 3/4 | 5,170.98 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 4,016.98 | 4 | 4,404.89 | 4 | 4,792.80 | 4 | 5,179.02 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 4,025.06 | 1/4 | 4,412.97 | 1/4 | 4,800.88 | 1/4 | 5,187.05 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,033.14 | 1/2 | 4,421.05 | 1/2 | 4,808.96 | 1/2 | 5,195.08 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,041.22 | 3/4 | 4,429.13 | 3/4 | 4,817.04 | 3/4 | 5,203.12 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 4,049.30 | 5 | 4,437.21 | 5 | 4,825.13 | 5 | 5,211.15 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 4,057.38 | 1/4 | 4,445.29 | 1/4 | 4,833.21 | 1/4 | 5,219.19 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,065.46 | 1/2 | 4,453.38 | 1/2 | 4,841.29 | 1/2 | 5,227.22 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,073.55 | 3/4 | 4,461.46 | 3/4 | 4,849.37 | 3/4 | 5,235.26 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 4,081.63 | 6 | 4,469.54 | 6 | 4,857.45 | 6 | 5,243.29 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 4,089.71 | 1/4 | 4,477.62 | 1/4 | 4,865.53 | 1/4 | 5,251.33 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,097.79 | 1/2 | 4,485.70 | 1/2 | 4,873.61 | 1/2 | 5,259.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,105.87 | 3/4 | 4,493.78 | 3/4 | 4,881.70 | 3/4 | 5,267.39 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 4,113.95 | 7 | 4,501.87 | 7 | 4,889.78 | 7 | 5,275.43 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 4,122.03 | 1/4 | 4,509.95 | 1/4 | 4,897.81 | 1/4 | 5,283.38 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,130.12 | 1/2 | 4,518.03 | 1/2 | 4,905.85 | 1/2 | 5,291.33 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,138.20 | 3/4 | 4,526.11 | 3/4 | 4,913.88 | 3/4 | 5,299.27 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 4,146.28 | 8 | 4,534.19 | 8 | 4,921.91 | 8 | 5,307.22 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 4,154.36 | 1/4 | 4,542.27 | 1/4 | 4,929.95 | 1/4 | 5,314.76 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,162.44 | 1/2 | 4,550.35 | 1/2 | 4,937.98 | 1/2 | 5,322.30 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,170.52 | 3/4 | 4,558.44 | 3/4 | 4,946.02 | 3/4 | 5,329.83 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 4,178.61 | 9 | 4,566.52 | 9 | 4,954.05 | 9 | 5,337.37 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 4,186.69 | 1/4 | 4,574.60 | 1/4 | 4,962.09 | 1/4 | 5,343.48 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,194.77 | 1/2 | 4,582.68 | 1/2 | 4,970.12 | 1/2 | 5,349.59 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,202.85 | 3/4 | 4,590.76 | 3/4 | 4,978.16 | 3/4 | 5,355.70 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 4,210.93 | 10 | 4,598.84 | 10 | 4,986.19 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 4,219.01 | 1/4 | 4,606.92 | 1/4 | 4,994.22 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,227.09 | 1/2 | 4,615.01 | 1/2 | 5,002.26 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,235.18 | 3/4 | 4,623.09 | 3/4 | 5,010.29 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 4,243.26 | 11 | 4,631.17 | 11 | 5,018.33 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 4,251.34 | 1/4 | 4,639.25 | 1/4 | 5,026.36 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 4,259.42 | 1/2 | 4,647.33 | 1/2 | 5,034.40 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 4,267.50 | 3/4 | 4,655.41 | 3/4 | 5,042.43 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

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



BARGE "EMS 377"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 17.60 | 0 | 369.46 | 0 | 721.70 | 0 | 1,078.29 | 0 | 1,439.64 | 0 | 1,800.80 | 0 | 2,161.43 | 0 | 2,522.95 | 0 | 2,884.46 | 0 | 3,245.61 |
| 1/4 | 22.98 | 1/4 | 377.00 | 1/4 | 728.94 | 1/4 | 1,085.82 | 1/4 | 1,447.17 | 1/4 | 1,808.31 | 1/4 | 2,168.97 | 1/4 | 2,530.48 | 1/4 | 2,891.98 | 1/4 | 3,253.15 |
| 1/2 | 28.36 | 1/2 | 384.53 | 1/2 | 736.18 | 1/2 | 1,093.34 | 1/2 | 1,454.70 | 1/2 | 1,815.82 | 1/2 | 2,176.50 | 1/2 | 2,538.01 | 1/2 | 2,899.51 | 1/2 | 3,260.68 |
| 3/4 | 33.74 | 3/4 | 392.06 | 3/4 | 743.43 | 3/4 | 1,100.87 | 3/4 | 1,462.23 | 3/4 | 1,823.32 | 3/4 | 2,184.03 | 3/4 | 2,545.54 | 3/4 | 2,907.03 | 3/4 | 3,268.21 |
| 1 | 39.11 | 1 | 399.59 | 1 | 750.67 | 1 | 1,108.40 | 1 | 1,469.75 | 1 | 1,830.83 | 1 | 2,191.56 | 1 | 2,553.07 | 1 | 2,914.56 | 1 | 3,275.74 |
| 1/4 | 46.38 | 1/4 | 407.13 | 1/4 | 757.92 | 1/4 | 1,115.93 | 1/4 | 1,477.28 | 1/4 | 1,838.34 | 1/4 | 2,199.09 | 1/4 | 2,560.60 | 1/4 | 2,922.08 | 1/4 | 3,283.27 |
| 1/2 | 53.64 | 1/2 | 414.66 | 1/2 | 765.17 | 1/2 | 1,123.46 | 1/2 | 1,484.81 | 1/2 | 1,845.85 | 1/2 | 2,206.62 | 1/2 | 2,568.14 | 1/2 | 2,929.60 | 1/2 | 3,290.80 |
| 3/4 | 60.90 | 3/4 | 422.19 | 3/4 | 772.42 | 3/4 | 1,130.99 | 3/4 | 1,492.34 | 3/4 | 1,853.36 | 3/4 | 2,214.16 | 3/4 | 2,575.67 | 3/4 | 2,937.13 | 3/4 | 3,298.33 |
| 2 | 68.17 | 2 | 429.72 | 2 | 779.67 | 2 | 1,138.51 | 2 | 1,499.87 | 2 | 1,860.87 | 2 | 2,221.69 | 2 | 2,583.20 | 2 | 2,944.65 | 2 | 3,305.86 |
| 1/4 | 75.70 | 1/4 | 437.26 | 1/4 | 786.91 | 1/4 | 1,146.04 | 1/4 | 1,507.40 | 1/4 | 1,868.37 | 1/4 | 2,229.22 | 1/4 | 2,590.73 | 1/4 | 2,952.18 | 1/4 | 3,313.39 |
| 1/2 | 83.23 | 1/2 | 444.79 | 1/2 | 794.16 | 1/2 | 1,153.57 | 1/2 | 1,514.92 | 1/2 | 1,875.88 | 1/2 | 2,236.75 | 1/2 | 2,598.26 | 1/2 | 2,959.70 | 1/2 | 3,320.92 |
| 3/4 | 90.77 | 3/4 | 452.32 | 3/4 | 801.40 | 3/4 | 1,161.10 | 3/4 | 1,522.45 | 3/4 | 1,883.39 | 3/4 | 2,244.28 | 3/4 | 2,605.79 | 3/4 | 2,967.23 | 3/4 | 3,328.45 |
| 3 | 98.30 | 3 | 459.85 | 3 | 808.64 | 3 | 1,168.63 | 3 | 1,529.98 | 3 | 1,890.90 | 3 | 2,251.81 | 3 | 2,613.32 | 3 | 2,974.75 | 3 | 3,335.98 |
| 1/4 | 105.83 | 1/4 | 467.39 | 1/4 | 815.88 | 1/4 | 1,176.16 | 1/4 | 1,537.51 | 1/4 | 1,898.41 | 1/4 | 2,259.34 | 1/4 | 2,620.86 | 1/4 | 2,982.27 | 1/4 | 3,343.51 |
| 1/2 | 113.36 | 1/2 | 474.92 | 1/2 | 823.12 | 1/2 | 1,183.68 | 1/2 | 1,545.04 | 1/2 | 1,905.92 | 1/2 | 2,266.88 | 1/2 | 2,628.39 | 1/2 | 2,989.80 | 1/2 | 3,351.04 |
| 3/4 | 120.89 | 3/4 | 482.45 | 3/4 | 830.36 | 3/4 | 1,191.21 | 3/4 | 1,552.57 | 3/4 | 1,913.43 | 3/4 | 2,274.41 | 3/4 | 2,635.92 | 3/4 | 2,997.32 | 3/4 | 3,358.58 |
| 4 | 128.43 | 4 | 489.98 | 4 | 837.60 | 4 | 1,198.74 | 4 | 1,560.09 | 4 | 1,920.93 | 4 | 2,281.94 | 4 | 2,643.45 | 4 | 3,004.85 | 4 | 3,366.11 |
| 1/4 | 135.96 | 1/4 | 497.23 | 1/4 | 845.12 | 1/4 | 1,206.27 | 1/4 | 1,567.62 | 1/4 | 1,928.44 | 1/4 | 2,289.47 | 1/4 | 2,650.98 | 1/4 | 3,012.37 | 1/4 | 3,373.64 |
| 1/2 | 143.49 | 1/2 | 504.48 | 1/2 | 852.64 | 1/2 | 1,213.80 | 1/2 | 1,575.15 | 1/2 | 1,935.95 | 1/2 | 2,297.00 | 1/2 | 2,658.51 | 1/2 | 3,019.89 | 1/2 | 3,381.17 |
| 3/4 | 151.02 | 3/4 | 511.73 | 3/4 | 860.16 | 3/4 | 1,221.32 | 3/4 | 1,582.68 | 3/4 | 1,943.46 | 3/4 | 2,304.53 | 3/4 | 2,666.05 | 3/4 | 3,027.42 | 3/4 | 3,388.70 |
| 5 | 158.56 | 5 | 518.98 | 5 | 867.68 | 5 | 1,228.85 | 5 | 1,590.21 | 5 | 1,950.97 | 5 | 2,312.06 | 5 | 2,673.58 | 5 | 3,034.94 | 5 | 3,396.23 |
| 1/4 | 166.09 | 1/4 | 526.22 | 1/4 | 875.20 | 1/4 | 1,236.38 | 1/4 | 1,597.73 | 1/4 | 1,958.48 | 1/4 | 2,319.60 | 1/4 | 2,681.11 | 1/4 | 3,042.47 | 1/4 | 3,403.76 |
| 1/2 | 173.62 | 1/2 | 533.47 | 1/2 | 882.72 | 1/2 | 1,243.91 | 1/2 | 1,605.26 | 1/2 | 1,965.99 | 1/2 | 2,327.13 | 1/2 | 2,688.64 | 1/2 | 3,049.99 | 1/2 | 3,411.29 |
| 3/4 | 181.15 | 3/4 | 540.71 | 3/4 | 890.24 | 3/4 | 1,251.44 | 3/4 | 1,612.79 | 3/4 | 1,973.49 | 3/4 | 2,334.66 | 3/4 | 2,696.17 | 3/4 | 3,057.52 | 3/4 | 3,418.82 |
| 6 | 188.69 | 6 | 547.95 | 6 | 897.76 | 6 | 1,258.97 | 6 | 1,620.32 | 6 | 1,981.00 | 6 | 2,342.19 | 6 | 2,703.70 | 6 | 3,065.04 | 6 | 3,426.35 |
| 1/4 | 196.22 | 1/4 | 555.19 | 1/4 | 905.27 | 1/4 | 1,266.49 | 1/4 | 1,627.85 | 1/4 | 1,988.51 | 1/4 | 2,349.72 | 1/4 | 2,711.23 | 1/4 | 3,072.56 | 1/4 | 3,433.88 |
| 1/2 | 203.75 | 1/2 | 562.43 | 1/2 | 912.79 | 1/2 | 1,274.02 | 1/2 | 1,635.38 | 1/2 | 1,996.02 | 1/2 | 2,357.25 | 1/2 | 2,718.77 | 1/2 | 3,080.09 | 1/2 | 3,441.41 |
| 3/4 | 211.28 | 3/4 | 569.67 | 3/4 | 920.31 | 3/4 | 1,281.55 | 3/4 | 1,642.90 | 3/4 | 2,003.53 | 3/4 | 2,364.79 | 3/4 | 2,726.30 | 3/4 | 3,087.61 | 3/4 | 3,448.94 |
| 7 | 218.82 | 7 | 576.91 | 7 | 927.83 | 7 | 1,289.08 | 7 | 1,650.43 | 7 | 2,011.04 | 7 | 2,372.32 | 7 | 2,733.83 | 7 | 3,095.14 | 7 | 3,456.47 |
| 1/4 | 226.35 | 1/4 | 584.15 | 1/4 | 935.35 | 1/4 | 1,296.61 | 1/4 | 1,657.96 | 1/4 | 2,018.54 | 1/4 | 2,379.85 | 1/4 | 2,741.36 | 1/4 | 3,102.66 | 1/4 | 3,464.00 |
| 1/2 | 233.88 | 1/2 | 591.40 | 1/2 | 942.87 | 1/2 | 1,304.13 | 1/2 | 1,665.49 | 1/2 | 2,026.05 | 1/2 | 2,387.38 | 1/2 | 2,748.89 | 1/2 | 3,110.18 | 1/2 | 3,471.53 |
| 3/4 | 241.41 | 3/4 | 598.64 | 3/4 | 950.39 | 3/4 | 1,311.66 | 3/4 | 1,673.02 | 3/4 | 2,033.56 | 3/4 | 2,394.91 | 3/4 | 2,756.42 | 3/4 | 3,117.71 | 3/4 | 3,479.06 |
| 8 | 248.95 | 8 | 605.88 | 8 | 957.91 | 8 | 1,319.19 | 8 | 1,680.54 | 8 | 2,041.07 | 8 | 2,402.44 | 8 | 2,763.95 | 8 | 3,125.23 | 8 | 3,486.59 |
| 1/4 | 256.48 | 1/4 | 613.11 | 1/4 | 965.43 | 1/4 | 1,326.72 | 1/4 | 1,688.07 | 1/4 | 2,048.58 | 1/4 | 2,409.97 | 1/4 | 2,771.49 | 1/4 | 3,132.76 | 1/4 | 3,494.12 |
| 1/2 | 264.01 | 1/2 | 620.35 | 1/2 | 972.95 | 1/2 | 1,334.25 | 1/2 | 1,695.60 | 1/2 | 2,056.09 | 1/2 | 2,417.51 | 1/2 | 2,779.02 | 1/2 | 3,140.28 | 1/2 | 3,501.65 |
| 3/4 | 271.54 | 3/4 | 627.59 | 3/4 | 980.47 | 3/4 | 1,341.78 | 3/4 | 1,703.13 | 3/4 | 2,063.60 | 3/4 | 2,425.04 | 3/4 | 2,786.55 | 3/4 | 3,147.81 | 3/4 | 3,509.18 |
| 9 | 279.08 | 9 | 634.82 | 9 | 987.99 | 9 | 1,349.30 | 9 | 1,710.66 | 9 | 2,071.10 | 9 | 2,432.57 | 9 | 2,794.08 | 9 | 3,155.33 | 9 | 3,516.71 |
| 1/4 | 286.61 | 1/4 | 642.06 | 1/4 | 995.51 | 1/4 | 1,356.83 | 1/4 | 1,718.18 | 1/4 | 2,078.62 | 1/4 | 2,440.10 | 1/4 | 2,801.61 | 1/4 | 3,162.85 | 1/4 | 3,524.24 |
| 1/2 | 294.14 | 1/2 | 649.30 | 1/2 | 1,003.02 | 1/2 | 1,364.36 | 1/2 | 1,725.69 | 1/2 | 2,086.14 | 1/2 | 2,447.63 | 1/2 | 2,809.14 | 1/2 | 3,170.38 | 1/2 | 3,531.77 |
| 3/4 | 301.67 | 3/4 | 656.54 | 3/4 | 1,010.54 | 3/4 | 1,371.89 | 3/4 | 1,733.21 | 3/4 | 2,093.66 | 3/4 | 2,455.16 | 3/4 | 2,816.68 | 3/4 | 3,177.91 | 3/4 | 3,539.30 |
| 10 | 309.20 | 10 | 663.77 | 10 | 1,018.06 | 10 | 1,379.42 | 10 | 1,740.73 | 10 | 2,101.18 | 10 | 2,462.69 | 10 | 2,824.21 | 10 | 3,185.43 | 10 | 3,546.83 |
| 1/4 | 316.74 | 1/4 | 671.01 | 1/4 | 1,025.59 | 1/4 | 1,386.94 | 1/4 | 1,748.24 | 1/4 | 2,108.71 | 1/4 | 2,470.23 | 1/4 | 2,831.74 | 1/4 | 3,192.95 | 1/4 | 3,554.36 |
| 1/2 | 324.27 | 1/2 | 678.25 | 1/2 | 1,033.12 | 1/2 | 1,394.47 | 1/2 | 1,755.75 | 1/2 | 2,116.25 | 1/2 | 2,477.76 | 1/2 | 2,839.27 | 1/2 | 3,200.47 | 1/2 | 3,561.89 |
| 3/4 | 331.80 | 3/4 | 685.50 | 3/4 | 1,040.65 | 3/4 | 1,402.00 | 3/4 | 1,763.26 | 3/4 | 2,123.78 | 3/4 | 2,485.29 | 3/4 | 2,846.80 | 3/4 | 3,208.00 | 3/4 | 3,569.42 |
| 11 | 339.33 | 11 | 692.74 | 11 | 1,048.18 | 11 | 1,409.53 | 11 | 1,770.76 | 11 | 2,131.31 | 11 | 2,492.82 | 11 | 2,854.33 | 11 | 3,215.52 | 11 | 3,576.95 |
| 1/4 | 346.87 | 1/4 | 699.98 | 1/4 | 1,055.70 | 1/4 | 1,417.06 | 1/4 | 1,778.27 | 1/4 | 2,138.84 | 1/4 | 2,500.35 | 1/4 | 2,861.86 | 1/4 | 3,223.04 | 1/4 | 3,584.48 |
| 1/2 | 354.40 | 1/2 | 707.22 | 1/2 | 1,063.23 | 1/2 | 1,424.59 | 1/2 | 1,785.78 | 1/2 | 2,146.37 | 1/2 | 2,507.88 | 1/2 | 2,869.40 | 1/2 | 3,230.57 | 1/2 | 3,592.01 |
| 3/4 | 361.93 | 3/4 | 714.46 | 3/4 | 1,070.76 | 3/4 | 1,432.11 | 3/4 | 1,793.29 | 3/4 | 2,153.90 | 3/4 | 2,515.42 | 3/4 | 2,876.93 | 3/4 | 3,238.09 | 3/4 | 3,599.54 |

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 TOP OF 2" DIAMETER HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





BARGE "EMS 377"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 3,575.04 | 0 | 3,881.58 | 0 | 4,188.12 | 0 | 4,493.93 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,581.43 | 1/4 | 3,887.97 | 1/4 | 4,194.50 | 1/4 | 4,500.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,587.81 | 1/2 | 3,894.35 | 1/2 | 4,200.89 | 1/2 | 4,506.63 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,594.20 | 3/4 | 3,900.74 | 3/4 | 4,207.28 | 3/4 | 4,512.98 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,600.59 | 1 | 3,907.12 | 1 | 4,213.66 | 1 | 4,519.33 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,606.97 | 1/4 | 3,913.51 | 1/4 | 4,220.05 | 1/4 | 4,525.68 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,613.36 | 1/2 | 3,919.90 | 1/2 | 4,226.43 | 1/2 | 4,532.03 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,619.75 | 3/4 | 3,926.28 | 3/4 | 4,232.82 | 3/4 | 4,538.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,626.13 | 2 | 3,932.67 | 2 | 4,239.21 | 2 | 4,544.73 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,632.52 | 1/4 | 3,939.06 | 1/4 | 4,245.59 | 1/4 | 4,551.08 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,638.90 | 1/2 | 3,945.44 | 1/2 | 4,251.98 | 1/2 | 4,557.43 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,645.29 | 3/4 | 3,951.83 | 3/4 | 4,258.37 | 3/4 | 4,563.78 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,651.68 | 3 | 3,958.21 | 3 | 4,264.75 | 3 | 4,570.13 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,658.06 | 1/4 | 3,964.60 | 1/4 | 4,271.14 | 1/4 | 4,576.48 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,664.45 | 1/2 | 3,970.99 | 1/2 | 4,277.52 | 1/2 | 4,582.83 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,670.84 | 3/4 | 3,977.37 | 3/4 | 4,283.91 | 3/4 | 4,589.18 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,677.22 | 4 | 3,983.76 | 4 | 4,290.30 | 4 | 4,595.53 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,683.61 | 1/4 | 3,990.15 | 1/4 | 4,296.68 | 1/4 | 4,601.88 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,689.99 | 1/2 | 3,996.53 | 1/2 | 4,303.07 | 1/2 | 4,608.23 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,696.38 | 3/4 | 4,002.92 | 3/4 | 4,309.46 | 3/4 | 4,614.58 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,702.77 | 5 | 4,009.30 | 5 | 4,315.84 | 5 | 4,620.93 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,709.15 | 1/4 | 4,015.69 | 1/4 | 4,322.23 | 1/4 | 4,627.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,715.54 | 1/2 | 4,022.08 | 1/2 | 4,328.61 | 1/2 | 4,633.63 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,721.93 | 3/4 | 4,028.46 | 3/4 | 4,335.00 | 3/4 | 4,639.98 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,728.31 | 6 | 4,034.85 | 6 | 4,341.39 | 6 | 4,646.33 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,734.70 | 1/4 | 4,041.24 | 1/4 | 4,347.77 | 1/4 | 4,652.68 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,741.08 | 1/2 | 4,047.62 | 1/2 | 4,354.16 | 1/2 | 4,659.03 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,747.47 | 3/4 | 4,054.01 | 3/4 | 4,360.55 | 3/4 | 4,665.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,753.86 | 7 | 4,060.39 | 7 | 4,366.93 | 7 | 4,671.73 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,760.24 | 1/4 | 4,066.78 | 1/4 | 4,373.28 | 1/4 | 4,679.13 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,766.63 | 1/2 | 4,073.17 | 1/2 | 4,379.63 | 1/2 | 4,686.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,773.01 | 3/4 | 4,079.55 | 3/4 | 4,385.98 | 3/4 | 4,693.95 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,779.40 | 8 | 4,085.94 | 8 | 4,392.33 | 8 | 4,701.36 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,785.79 | 1/4 | 4,092.32 | 1/4 | 4,398.68 | 1/4 | 4,708.38 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,792.17 | 1/2 | 4,098.71 | 1/2 | 4,405.03 | 1/2 | 4,715.41 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,798.56 | 3/4 | 4,105.10 | 3/4 | 4,411.38 | 3/4 | 4,722.43 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,804.95 | 9 | 4,111.48 | 9 | 4,417.73 | 9 | 4,729.45 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,811.33 | 1/4 | 4,117.87 | 1/4 | 4,424.08 | 1/4 | 4,735.15 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,817.72 | 1/2 | 4,124.26 | 1/2 | 4,430.43 | 1/2 | 4,740.84 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,824.10 | 3/4 | 4,130.64 | 3/4 | 4,436.78 | 3/4 | 4,746.54 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,830.49 | 10 | 4,137.03 | 10 | 4,443.13 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,836.88 | 1/4 | 4,143.41 | 1/4 | 4,449.48 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,843.26 | 1/2 | 4,149.80 | 1/2 | 4,455.83 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,849.65 | 3/4 | 4,156.19 | 3/4 | 4,462.18 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,856.04 | 11 | 4,162.57 | 11 | 4,468.53 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,862.42 | 1/4 | 4,168.96 | 1/4 | 4,474.88 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,868.81 | 1/2 | 4,175.35 | 1/2 | 4,481.23 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,875.19 | 3/4 | 4,181.73 | 3/4 | 4,487.58 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 377"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 17.60 | 0 | 369.08 | 0 | 722.68 | 0 | 1,080.08 | 0 | 1,441.08 | 0 | 1,801.33 | 0 | 2,159.55 | 0 | 2,520.41 | 0 | 2,881.46 | 0 | 3,242.18 |
| 1/4 | 22.99 | 1/4 | 376.61 | 1/4 | 729.97 | 1/4 | 1,087.60 | 1/4 | 1,448.60 | 1/4 | 1,808.78 | 1/4 | 2,167.08 | 1/4 | 2,527.92 | 1/4 | 2,888.97 | 1/4 | 3,249.70 |
| 1/2 | 28.37 | 1/2 | 384.13 | 1/2 | 737.25 | 1/2 | 1,095.12 | 1/2 | 1,456.12 | 1/2 | 1,816.22 | 1/2 | 2,174.60 | 1/2 | 2,535.44 | 1/2 | 2,896.49 | 1/2 | 3,257.23 |
| 3/4 | 33.75 | 3/4 | 391.65 | 3/4 | 744.54 | 3/4 | 1,102.64 | 3/4 | 1,463.64 | 3/4 | 1,823.67 | 3/4 | 2,182.13 | 3/4 | 2,542.95 | 3/4 | 2,904.00 | 3/4 | 3,264.75 |
| 1 | 39.13 | 1 | 399.18 | 1 | 751.83 | 1 | 1,110.16 | 1 | 1,471.16 | 1 | 1,831.12 | 1 | 2,189.65 | 1 | 2,550.46 | 1 | 2,911.52 | 1 | 3,272.27 |
| 1/4 | 46.38 | 1/4 | 406.70 | 1/4 | 759.13 | 1/4 | 1,117.68 | 1/4 | 1,478.68 | 1/4 | 1,838.56 | 1/4 | 2,197.17 | 1/4 | 2,557.99 | 1/4 | 2,919.03 | 1/4 | 3,279.79 |
| 1/2 | 53.64 | 1/2 | 414.22 | 1/2 | 766.43 | 1/2 | 1,125.20 | 1/2 | 1,486.20 | 1/2 | 1,846.01 | 1/2 | 2,204.70 | 1/2 | 2,565.51 | 1/2 | 2,926.55 | 1/2 | 3,287.31 |
| 3/4 | 60.89 | 3/4 | 421.75 | 3/4 | 773.73 | 3/4 | 1,132.72 | 3/4 | 1,493.72 | 3/4 | 1,853.46 | 3/4 | 2,212.22 | 3/4 | 2,573.03 | 3/4 | 2,934.06 | 3/4 | 3,294.84 |
| 2 | 68.15 | 2 | 429.27 | 2 | 781.02 | 2 | 1,140.24 | 2 | 1,501.24 | 2 | 1,860.90 | 2 | 2,219.75 | 2 | 2,580.55 | 2 | 2,941.58 | 2 | 3,302.36 |
| 1/4 | 75.67 | 1/4 | 436.79 | 1/4 | 788.32 | 1/4 | 1,147.76 | 1/4 | 1,508.76 | 1/4 | 1,868.35 | 1/4 | 2,227.27 | 1/4 | 2,588.08 | 1/4 | 2,949.10 | 1/4 | 3,309.88 |
| 1/2 | 83.19 | 1/2 | 444.32 | 1/2 | 795.62 | 1/2 | 1,155.29 | 1/2 | 1,516.28 | 1/2 | 1,875.80 | 1/2 | 2,234.79 | 1/2 | 2,595.60 | 1/2 | 2,956.61 | 1/2 | 3,317.40 |
| 3/4 | 90.72 | 3/4 | 451.84 | 3/4 | 802.92 | 3/4 | 1,162.81 | 3/4 | 1,523.80 | 3/4 | 1,883.24 | 3/4 | 2,242.32 | 3/4 | 2,603.12 | 3/4 | 2,964.13 | 3/4 | 3,324.92 |
| 3 | 98.24 | 3 | 459.36 | 3 | 810.22 | 3 | 1,170.33 | 3 | 1,531.33 | 3 | 1,890.69 | 3 | 2,249.84 | 3 | 2,610.64 | 3 | 2,971.64 | 3 | 3,332.44 |
| 1/4 | 105.76 | 1/4 | 466.89 | 1/4 | 817.52 | 1/4 | 1,177.85 | 1/4 | 1,538.85 | 1/4 | 1,898.14 | 1/4 | 2,257.37 | 1/4 | 2,618.17 | 1/4 | 2,979.16 | 1/4 | 3,339.97 |
| 1/2 | 113.29 | 1/2 | 474.41 | 1/2 | 824.82 | 1/2 | 1,185.37 | 1/2 | 1,546.37 | 1/2 | 1,905.59 | 1/2 | 2,264.89 | 1/2 | 2,625.69 | 1/2 | 2,986.67 | 1/2 | 3,347.49 |
| 3/4 | 120.81 | 3/4 | 481.93 | 3/4 | 832.11 | 3/4 | 1,192.89 | 3/4 | 1,553.89 | 3/4 | 1,913.03 | 3/4 | 2,272.41 | 3/4 | 2,633.21 | 3/4 | 2,994.19 | 3/4 | 3,355.01 |
| 4 | 128.33 | 4 | 489.46 | 4 | 839.41 | 4 | 1,200.41 | 4 | 1,561.41 | 4 | 1,920.48 | 4 | 2,279.94 | 4 | 2,640.74 | 4 | 3,001.70 | 4 | 3,362.53 |
| 1/4 | 135.86 | 1/4 | 496.75 | 1/4 | 846.93 | 1/4 | 1,207.93 | 1/4 | 1,568.93 | 1/4 | 1,927.93 | 1/4 | 2,287.46 | 1/4 | 2,648.26 | 1/4 | 3,009.22 | 1/4 | 3,370.05 |
| 1/2 | 143.38 | 1/2 | 504.05 | 1/2 | 854.45 | 1/2 | 1,215.45 | 1/2 | 1,576.45 | 1/2 | 1,935.37 | 1/2 | 2,294.99 | 1/2 | 2,655.78 | 1/2 | 3,016.73 | 1/2 | 3,377.57 |
| 3/4 | 150.90 | 3/4 | 511.35 | 3/4 | 861.97 | 3/4 | 1,222.97 | 3/4 | 1,583.97 | 3/4 | 1,942.82 | 3/4 | 2,302.51 | 3/4 | 2,663.30 | 3/4 | 3,024.25 | 3/4 | 3,385.10 |
| 5 | 158.43 | 5 | 518.65 | 5 | 869.50 | 5 | 1,230.49 | 5 | 1,591.49 | 5 | 1,950.27 | 5 | 2,310.04 | 5 | 2,670.83 | 5 | 3,031.76 | 5 | 3,392.62 |
| 1/4 | 165.95 | 1/4 | 525.94 | 1/4 | 877.02 | 1/4 | 1,238.01 | 1/4 | 1,599.01 | 1/4 | 1,957.71 | 1/4 | 2,317.55 | 1/4 | 2,678.35 | 1/4 | 3,039.28 | 1/4 | 3,399.01 |
| 1/2 | 173.47 | 1/2 | 533.22 | 1/2 | 884.54 | 1/2 | 1,245.54 | 1/2 | 1,606.53 | 1/2 | 1,965.16 | 1/2 | 2,325.06 | 1/2 | 2,685.87 | 1/2 | 3,046.79 | 1/2 | 3,405.39 |
| 3/4 | 181.00 | 3/4 | 540.51 | 3/4 | 892.06 | 3/4 | 1,253.06 | 3/4 | 1,614.05 | 3/4 | 1,972.61 | 3/4 | 2,332.58 | 3/4 | 2,693.39 | 3/4 | 3,054.31 | 3/4 | 3,411.78 |
| 6 | 188.52 | 6 | 547.80 | 6 | 899.58 | 6 | 1,260.58 | 6 | 1,621.58 | 6 | 1,980.05 | 6 | 2,340.09 | 6 | 2,700.92 | 6 | 3,061.82 | 6 | 3,418.17 |
| 1/4 | 196.04 | 1/4 | 555.09 | 1/4 | 907.10 | 1/4 | 1,268.10 | 1/4 | 1,629.10 | 1/4 | 1,987.50 | 1/4 | 2,347.60 | 1/4 | 2,708.44 | 1/4 | 3,069.34 | 1/4 | 3,424.56 |
| 1/2 | 203.57 | 1/2 | 562.38 | 1/2 | 914.62 | 1/2 | 1,275.62 | 1/2 | 1,636.62 | 1/2 | 1,994.95 | 1/2 | 2,355.12 | 1/2 | 2,715.96 | 1/2 | 3,076.85 | 1/2 | 3,430.95 |
| 3/4 | 211.09 | 3/4 | 569.66 | 3/4 | 922.14 | 3/4 | 1,283.14 | 3/4 | 1,644.14 | 3/4 | 2,002.39 | 3/4 | 2,362.63 | 3/4 | 2,723.48 | 3/4 | 3,084.37 | 3/4 | 3,437.34 |
| 7 | 218.61 | 7 | 576.95 | 7 | 929.66 | 7 | 1,290.66 | 7 | 1,651.66 | 7 | 2,009.84 | 7 | 2,370.14 | 7 | 2,731.01 | 7 | 3,091.88 | 7 | 3,443.72 |
| 1/4 | 226.14 | 1/4 | 584.24 | 1/4 | 937.18 | 1/4 | 1,298.18 | 1/4 | 1,659.18 | 1/4 | 2,017.29 | 1/4 | 2,377.66 | 1/4 | 2,738.53 | 1/4 | 3,099.40 | 1/4 | 3,450.11 |
| 1/2 | 233.66 | 1/2 | 591.53 | 1/2 | 944.70 | 1/2 | 1,305.70 | 1/2 | 1,666.70 | 1/2 | 2,024.74 | 1/2 | 2,385.17 | 1/2 | 2,746.05 | 1/2 | 3,106.91 | 1/2 | 3,456.50 |
| 3/4 | 241.18 | 3/4 | 598.82 | 3/4 | 952.22 | 3/4 | 1,313.22 | 3/4 | 1,674.22 | 3/4 | 2,032.18 | 3/4 | 2,392.68 | 3/4 | 2,753.57 | 3/4 | 3,114.43 | 3/4 | 3,462.89 |
| 8 | 248.71 | 8 | 606.10 | 8 | 959.74 | 8 | 1,320.74 | 8 | 1,681.74 | 8 | 2,039.63 | 8 | 2,400.20 | 8 | 2,761.10 | 8 | 3,121.94 | 8 | 3,469.28 |
| 1/4 | 256.23 | 1/4 | 613.39 | 1/4 | 967.27 | 1/4 | 1,328.26 | 1/4 | 1,689.26 | 1/4 | 2,047.08 | 1/4 | 2,407.71 | 1/4 | 2,768.62 | 1/4 | 3,129.46 | 1/4 | 3,475.67 |
| 1/2 | 263.75 | 1/2 | 620.67 | 1/2 | 974.79 | 1/2 | 1,335.78 | 1/2 | 1,696.78 | 1/2 | 2,054.52 | 1/2 | 2,415.22 | 1/2 | 2,776.14 | 1/2 | 3,136.98 | 1/2 | 3,482.05 |
| 3/4 | 271.28 | 3/4 | 627.95 | 3/4 | 982.31 | 3/4 | 1,343.31 | 3/4 | 1,704.30 | 3/4 | 2,061.97 | 3/4 | 2,422.74 | 3/4 | 2,783.66 | 3/4 | 3,144.49 | 3/4 | 3,488.44 |
| 9 | 278.80 | 9 | 635.24 | 9 | 989.83 | 9 | 1,350.83 | 9 | 1,711.82 | 9 | 2,069.42 | 9 | 2,430.25 | 9 | 2,791.19 | 9 | 3,152.01 | 9 | 3,494.83 |
| 1/4 | 286.32 | 1/4 | 642.52 | 1/4 | 997.35 | 1/4 | 1,358.35 | 1/4 | 1,719.31 | 1/4 | 2,076.90 | 1/4 | 2,437.76 | 1/4 | 2,798.71 | 1/4 | 3,159.52 | 1/4 | 3,501.22 |
| 1/2 | 293.85 | 1/2 | 649.81 | 1/2 | 1,004.87 | 1/2 | 1,365.87 | 1/2 | 1,726.79 | 1/2 | 2,084.39 | 1/2 | 2,445.28 | 1/2 | 2,806.23 | 1/2 | 3,167.04 | 1/2 | 3,507.61 |
| 3/4 | 301.37 | 3/4 | 657.09 | 3/4 | 1,012.39 | 3/4 | 1,373.39 | 3/4 | 1,734.27 | 3/4 | 2,091.87 | 3/4 | 2,452.79 | 3/4 | 2,813.76 | 3/4 | 3,174.55 | 3/4 | 3,514.00 |
| 10 | 308.89 | 10 | 664.37 | 10 | 1,019.91 | 10 | 1,380.91 | 10 | 1,741.75 | 10 | 2,099.36 | 10 | 2,460.30 | 10 | 2,821.28 | 10 | 3,182.07 | 10 | 3,520.39 |
| 1/4 | 316.42 | 1/4 | 671.66 | 1/4 | 1,027.43 | 1/4 | 1,388.43 | 1/4 | 1,749.20 | 1/4 | 2,106.88 | 1/4 | 2,467.82 | 1/4 | 2,828.80 | 1/4 | 3,189.58 | 1/4 | 3,526.77 |
| 1/2 | 323.94 | 1/2 | 678.95 | 1/2 | 1,034.95 | 1/2 | 1,395.95 | 1/2 | 1,756.65 | 1/2 | 2,114.41 | 1/2 | 2,475.33 | 1/2 | 2,836.32 | 1/2 | 3,197.10 | 1/2 | 3,533.16 |
| 3/4 | 331.46 | 3/4 | 686.24 | 3/4 | 1,042.47 | 3/4 | 1,403.47 | 3/4 | 1,764.09 | 3/4 | 2,121.93 | 3/4 | 2,482.84 | 3/4 | 2,843.85 | 3/4 | 3,204.61 | 3/4 | 3,539.55 |
| 11 | 338.99 | 11 | 693.53 | 11 | 1,049.99 | 11 | 1,410.99 | 11 | 1,771.54 | 11 | 2,129.46 | 11 | 2,490.36 | 11 | 2,851.37 | 11 | 3,212.12 | 11 | 3,545.94 |
| 1/4 | 346.51 | 1/4 | 700.81 | 1/4 | 1,057.52 | 1/4 | 1,418.51 | 1/4 | 1,778.99 | 1/4 | 2,136.98 | 1/4 | 2,497.87 | 1/4 | 2,858.89 | 1/4 | 3,219.64 | 1/4 | 3,552.33 |
| 1/2 | 354.03 | 1/2 | 708.10 | 1/2 | 1,065.04 | 1/2 | 1,426.03 | 1/2 | 1,786.43 | 1/2 | 2,144.51 | 1/2 | 2,505.38 | 1/2 | 2,866.41 | 1/2 | 3,227.15 | 1/2 | 3,558.72 |
| 3/4 | 361.56 | 3/4 | 715.39 | 3/4 | 1,072.56 | 3/4 | 1,433.56 | 3/4 | 1,793.88 | 3/4 | 2,152.03 | 3/4 | 2,512.90 | 3/4 | 2,873.94 | 3/4 | 3,234.67 | 3/4 | 3,565.10 |

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 TOP OF 2" DIAMETER HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 377"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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 | 3,571.49 | 0 | 3,878.14 | 0 | 4,184.78 | 0 | 4,490.69 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,577.88 | 1/4 | 3,884.52 | 1/4 | 4,191.17 | 1/4 | 4,497.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,584.27 | 1/2 | 3,890.91 | 1/2 | 4,197.56 | 1/2 | 4,503.40 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,590.66 | 3/4 | 3,897.30 | 3/4 | 4,203.94 | 3/4 | 4,509.75 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,597.05 | 1 | 3,903.69 | 1 | 4,210.33 | 1 | 4,516.10 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,603.43 | 1/4 | 3,910.08 | 1/4 | 4,216.72 | 1/4 | 4,522.45 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,609.82 | 1/2 | 3,916.47 | 1/2 | 4,223.11 | 1/2 | 4,528.80 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,616.21 | 3/4 | 3,922.85 | 3/4 | 4,229.50 | 3/4 | 4,535.16 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,622.60 | 2 | 3,929.24 | 2 | 4,235.89 | 2 | 4,541.51 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,628.99 | 1/4 | 3,935.63 | 1/4 | 4,242.27 | 1/4 | 4,547.86 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,635.38 | 1/2 | 3,942.02 | 1/2 | 4,248.66 | 1/2 | 4,554.21 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,641.76 | 3/4 | 3,948.41 | 3/4 | 4,255.05 | 3/4 | 4,560.56 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,648.15 | 3 | 3,954.80 | 3 | 4,261.44 | 3 | 4,566.91 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,654.54 | 1/4 | 3,961.18 | 1/4 | 4,267.83 | 1/4 | 4,573.27 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,660.93 | 1/2 | 3,967.57 | 1/2 | 4,274.22 | 1/2 | 4,579.62 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,667.32 | 3/4 | 3,973.96 | 3/4 | 4,280.60 | 3/4 | 4,585.97 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,673.71 | 4 | 3,980.35 | 4 | 4,286.99 | 4 | 4,592.32 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,680.10 | 1/4 | 3,986.74 | 1/4 | 4,293.38 | 1/4 | 4,598.67 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,686.48 | 1/2 | 3,993.13 | 1/2 | 4,299.77 | 1/2 | 4,605.03 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,692.87 | 3/4 | 3,999.52 | 3/4 | 4,306.16 | 3/4 | 4,611.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,699.26 | 5 | 4,005.90 | 5 | 4,312.55 | 5 | 4,617.73 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,705.65 | 1/4 | 4,012.29 | 1/4 | 4,318.94 | 1/4 | 4,624.08 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,712.04 | 1/2 | 4,018.68 | 1/2 | 4,325.32 | 1/2 | 4,630.43 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,718.43 | 3/4 | 4,025.07 | 3/4 | 4,331.71 | 3/4 | 4,636.79 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,724.81 | 6 | 4,031.46 | 6 | 4,338.10 | 6 | 4,643.14 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,731.20 | 1/4 | 4,037.85 | 1/4 | 4,344.49 | 1/4 | 4,649.49 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,737.59 | 1/2 | 4,044.23 | 1/2 | 4,350.88 | 1/2 | 4,655.84 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,743.98 | 3/4 | 4,050.62 | 3/4 | 4,357.27 | 3/4 | 4,662.19 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,750.37 | 7 | 4,057.01 | 7 | 4,363.65 | 7 | 4,668.55 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,756.76 | 1/4 | 4,063.40 | 1/4 | 4,370.01 | 1/4 | 4,675.96 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,763.14 | 1/2 | 4,069.79 | 1/2 | 4,376.36 | 1/2 | 4,683.37 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,769.53 | 3/4 | 4,076.18 | 3/4 | 4,382.71 | 3/4 | 4,690.78 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,775.92 | 8 | 4,082.56 | 8 | 4,389.06 | 8 | 4,698.19 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,782.31 | 1/4 | 4,088.95 | 1/4 | 4,395.41 | 1/4 | 4,705.21 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,788.70 | 1/2 | 4,095.34 | 1/2 | 4,401.77 | 1/2 | 4,712.24 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,795.09 | 3/4 | 4,101.73 | 3/4 | 4,408.12 | 3/4 | 4,719.26 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,801.47 | 9 | 4,108.12 | 9 | 4,414.47 | 9 | 4,726.29 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,807.86 | 1/4 | 4,114.51 | 1/4 | 4,420.82 | 1/4 | 4,731.99 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,814.25 | 1/2 | 4,120.89 | 1/2 | 4,427.17 | 1/2 | 4,737.68 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,820.64 | 3/4 | 4,127.28 | 3/4 | 4,433.52 | 3/4 | 4,743.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,827.03 | 10 | 4,133.67 | 10 | 4,439.88 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,833.42 | 1/4 | 4,140.06 | 1/4 | 4,446.23 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,839.81 | 1/2 | 4,146.45 | 1/2 | 4,452.58 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,846.19 | 3/4 | 4,152.84 | 3/4 | 4,458.93 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,852.58 | 11 | 4,159.23 | 11 | 4,465.28 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,858.97 | 1/4 | 4,165.61 | 1/4 | 4,471.64 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,865.36 | 1/2 | 4,172.00 | 1/2 | 4,477.99 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,871.75 | 3/4 | 4,178.39 | 3/4 | 4,484.34 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

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



BARGE "EMS 377"

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 | 00-1/4 | - 00-1/4 | 00-5/8 | - 00-5/8 | 00-7/8 | - 00-7/8 | 01-1/4 | - 01-1/4 | 01-1/2 | - 01-1/2 | 01-7/8 | - 01-7/8 |
| 1 STBD | 00-1/4 | - 00-1/4 | 00-5/8 | - 00-5/8 | 00-7/8 | - 00-7/8 | 01-1/4 | - 01-1/4 | 01-1/2 | - 01-1/2 | 01-7/8 | - 01-7/8 |
| 2 PORT | - 00-1/4 | 00-1/4 | - 00-3/8 | 00-3/8 | - 00-5/8 | 00-5/8 | - 00-3/4 | 00-3/4 | - 01-0/8 | 01-0/8 | - 01-1/8 | 01-1/8 |
| 2 STBD | - 00-1/4 | 00-1/4 | - 00-3/8 | 00-3/8 | - 00-5/8 | 00-5/8 | - 00-3/4 | 00-3/4 | - 01-0/8 | 01-0/8 | - 01-1/8 | 01-1/8 |
| 3 PORT | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-7/8 | - 01-7/8 | 02-1/4 | - 02-1/4 | 02-3/4 | - 02-3/4 |
| 3 STBD | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-7/8 | - 01-7/8 | 02-1/4 | - 02-1/4 | 02-3/4 | - 02-3/4 |

(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 PORT IS - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

July 9, 2012

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 377"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|-------|-----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| 0 | | 0 | | 0 | | 0 | 4,263.83 | 0 | 3,933.98 | 0 | 3,602.61 | 0 | 3,271.25 | 0 | 2,939.88 | 0 | 2,608.49 | 0 | 2,277.07 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,256.97 | 1/4 | 3,927.08 | 1/4 | 3,595.71 | 1/4 | 3,264.34 | 1/4 | 2,932.97 | 1/4 | 2,601.58 | 1/4 | 2,270.17 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,250.10 | 1/2 | 3,920.17 | 1/2 | 3,588.81 | 1/2 | 3,257.44 | 1/2 | 2,926.07 | 1/2 | 2,594.68 | 1/2 | 2,263.26 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,243.24 | 3/4 | 3,913.27 | 3/4 | 3,581.90 | 3/4 | 3,250.53 | 3/4 | 2,919.17 | 3/4 | 2,587.77 | 3/4 | 2,256.36 |
| 1 | | 1 | | 1 | | 1 | 4,236.38 | 1 | 3,906.37 | 1 | 3,575.00 | 1 | 3,243.63 | 1 | 2,912.26 | 1 | 2,580.87 | 1 | 2,249.45 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,229.51 | 1/4 | 3,899.46 | 1/4 | 3,568.10 | 1/4 | 3,236.73 | 1/4 | 2,905.36 | 1/4 | 2,573.96 | 1/4 | 2,242.55 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,222.65 | 1/2 | 3,892.56 | 1/2 | 3,561.19 | 1/2 | 3,229.82 | 1/2 | 2,898.46 | 1/2 | 2,567.06 | 1/2 | 2,235.64 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,215.78 | 3/4 | 3,885.66 | 3/4 | 3,554.29 | 3/4 | 3,222.92 | 3/4 | 2,891.55 | 3/4 | 2,560.16 | 3/4 | 2,228.74 |
| 2 | | 2 | | 2 | | 2 | 4,208.92 | 2 | 3,878.75 | 2 | 3,547.39 | 2 | 3,216.02 | 2 | 2,884.65 | 2 | 2,553.25 | 2 | 2,221.84 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,202.06 | 1/4 | 3,871.85 | 1/4 | 3,540.48 | 1/4 | 3,209.11 | 1/4 | 2,877.75 | 1/4 | 2,546.35 | 1/4 | 2,214.93 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,195.19 | 1/2 | 3,864.95 | 1/2 | 3,533.58 | 1/2 | 3,202.21 | 1/2 | 2,870.84 | 1/2 | 2,539.44 | 1/2 | 2,208.03 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,188.33 | 3/4 | 3,858.04 | 3/4 | 3,526.67 | 3/4 | 3,195.31 | 3/4 | 2,863.94 | 3/4 | 2,532.54 | 3/4 | 2,201.12 |
| 3 | | 3 | | 3 | | 3 | 4,181.47 | 3 | 3,851.14 | 3 | 3,519.77 | 3 | 3,188.40 | 3 | 2,857.04 | 3 | 2,525.63 | 3 | 2,194.22 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,174.60 | 1/4 | 3,844.24 | 1/4 | 3,512.87 | 1/4 | 3,181.50 | 1/4 | 2,850.13 | 1/4 | 2,518.73 | 1/4 | 2,187.31 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,167.74 | 1/2 | 3,837.33 | 1/2 | 3,505.96 | 1/2 | 3,174.60 | 1/2 | 2,843.23 | 1/2 | 2,511.82 | 1/2 | 2,180.41 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,160.88 | 3/4 | 3,830.43 | 3/4 | 3,499.06 | 3/4 | 3,167.69 | 3/4 | 2,836.32 | 3/4 | 2,504.92 | 3/4 | 2,173.50 |
| 4 | | 4 | | 4 | | 4 | 4,154.01 | 4 | 3,823.53 | 4 | 3,492.16 | 4 | 3,160.79 | 4 | 2,829.42 | 4 | 2,498.02 | 4 | 2,166.60 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,147.15 | 1/4 | 3,816.62 | 1/4 | 3,485.25 | 1/4 | 3,153.89 | 1/4 | 2,822.52 | 1/4 | 2,491.11 | 1/4 | 2,159.69 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,140.29 | 1/2 | 3,809.72 | 1/2 | 3,478.35 | 1/2 | 3,146.98 | 1/2 | 2,815.61 | 1/2 | 2,484.21 | 1/2 | 2,152.79 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,133.42 | 3/4 | 3,802.81 | 3/4 | 3,471.45 | 3/4 | 3,140.08 | 3/4 | 2,808.71 | 3/4 | 2,477.30 | 3/4 | 2,145.89 |
| 5 | | 5 | | 5 | | 5 | 4,126.56 | 5 | 3,795.91 | 5 | 3,464.54 | 5 | 3,133.18 | 5 | 2,801.81 | 5 | 2,470.40 | 5 | 2,138.98 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,119.70 | 1/4 | 3,789.01 | 1/4 | 3,457.64 | 1/4 | 3,126.27 | 1/4 | 2,794.90 | 1/4 | 2,463.49 | 1/4 | 2,132.08 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,112.83 | 1/2 | 3,782.10 | 1/2 | 3,450.74 | 1/2 | 3,119.37 | 1/2 | 2,788.00 | 1/2 | 2,456.59 | 1/2 | 2,125.17 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,105.97 | 3/4 | 3,775.20 | 3/4 | 3,443.83 | 3/4 | 3,112.46 | 3/4 | 2,781.10 | 3/4 | 2,449.68 | 3/4 | 2,118.27 |
| 6 | | 6 | | 6 | | 6 | 4,099.11 | 6 | 3,768.30 | 6 | 3,436.93 | 6 | 3,105.56 | 6 | 2,774.19 | 6 | 2,442.78 | 6 | 2,111.36 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,092.24 | 1/4 | 3,761.39 | 1/4 | 3,430.03 | 1/4 | 3,098.66 | 1/4 | 2,767.29 | 1/4 | 2,435.87 | 1/4 | 2,104.46 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,085.38 | 1/2 | 3,754.49 | 1/2 | 3,423.12 | 1/2 | 3,091.75 | 1/2 | 2,760.39 | 1/2 | 2,428.97 | 1/2 | 2,097.55 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,401.04 | 3/4 | 4,078.51 | 3/4 | 3,747.59 | 3/4 | 3,416.22 | 3/4 | 3,084.85 | 3/4 | 2,753.48 | 3/4 | 2,422.07 |
| 7 | | 7 | | 7 | | 7 | 4,395.82 | 7 | 4,071.65 | 7 | 3,740.68 | 7 | 3,409.32 | 7 | 3,077.95 | 7 | 2,746.58 | 7 | 2,415.16 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,390.60 | 1/4 | 4,064.79 | 1/4 | 3,733.78 | 1/4 | 3,402.41 | 1/4 | 3,071.04 | 1/4 | 2,739.67 | 1/4 | 2,408.26 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,385.38 | 1/2 | 4,057.92 | 1/2 | 3,726.88 | 1/2 | 3,395.51 | 1/2 | 3,064.14 | 1/2 | 2,732.77 | 1/2 | 2,401.35 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,378.94 | 3/4 | 4,051.06 | 3/4 | 3,719.97 | 3/4 | 3,388.60 | 3/4 | 3,057.24 | 3/4 | 2,725.86 | 3/4 | 2,394.45 |
| 8 | | 8 | | 8 | | 8 | 4,372.50 | 8 | 4,044.20 | 8 | 3,713.07 | 8 | 3,381.70 | 8 | 3,050.33 | 8 | 2,718.96 | 8 | 2,387.54 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,366.06 | 1/4 | 4,037.33 | 1/4 | 3,706.17 | 1/4 | 3,374.80 | 1/4 | 3,043.43 | 1/4 | 2,712.05 | 1/4 | 2,380.64 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,359.62 | 1/2 | 4,030.47 | 1/2 | 3,699.26 | 1/2 | 3,367.89 | 1/2 | 3,036.53 | 1/2 | 2,705.15 | 1/2 | 2,373.73 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,352.83 | 3/4 | 4,023.61 | 3/4 | 3,692.36 | 3/4 | 3,360.99 | 3/4 | 3,029.62 | 3/4 | 2,698.25 | 3/4 | 2,366.83 |
| 9 | | 9 | | 9 | | 9 | 4,346.04 | 9 | 4,016.74 | 9 | 3,685.46 | 9 | 3,354.09 | 9 | 3,022.72 | 9 | 2,691.34 | 9 | 2,359.93 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,339.25 | 1/4 | 4,009.88 | 1/4 | 3,678.55 | 1/4 | 3,347.18 | 1/4 | 3,015.82 | 1/4 | 2,684.44 | 1/4 | 2,353.02 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,332.46 | 1/2 | 4,003.02 | 1/2 | 3,671.65 | 1/2 | 3,340.28 | 1/2 | 3,008.91 | 1/2 | 2,677.53 | 1/2 | 2,346.12 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,325.60 | 3/4 | 3,996.11 | 3/4 | 3,664.74 | 3/4 | 3,333.38 | 3/4 | 3,002.01 | 3/4 | 2,670.63 | 3/4 | 2,339.21 |
| 10 | | 10 | | 10 | | 10 | 4,318.74 | 10 | 3,989.21 | 10 | 3,657.84 | 10 | 3,326.47 | 10 | 2,995.11 | 10 | 2,663.72 | 10 | 2,332.31 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,311.87 | 1/4 | 3,982.31 | 1/4 | 3,650.94 | 1/4 | 3,319.57 | 1/4 | 2,988.20 | 1/4 | 2,656.82 | 1/4 | 2,325.40 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,305.01 | 1/2 | 3,975.40 | 1/2 | 3,644.03 | 1/2 | 3,312.67 | 1/2 | 2,981.30 | 1/2 | 2,649.91 | 1/2 | 2,318.50 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,298.15 | 3/4 | 3,968.50 | 3/4 | 3,637.13 | 3/4 | 3,305.76 | 3/4 | 2,974.39 | 3/4 | 2,643.01 | 3/4 | 2,311.59 |
| 11 | | 11 | | 11 | | 11 | 4,291.28 | 11 | 3,961.60 | 11 | 3,630.23 | 11 | 3,298.86 | 11 | 2,967.49 | 11 | 2,636.11 | 11 | 2,304.69 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,284.42 | 1/4 | 3,954.69 | 1/4 | 3,623.32 | 1/4 | 3,291.96 | 1/4 | 2,960.59 | 1/4 | 2,629.20 | 1/4 | 2,297.78 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,277.56 | 1/2 | 3,947.79 | 1/2 | 3,616.42 | 1/2 | 3,285.05 | 1/2 | 2,953.68 | 1/2 | 2,622.30 | 1/2 | 2,290.88 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,270.69 | 3/4 | 3,940.88 | 3/4 | 3,609.52 | 3/4 | 3,278.15 | 3/4 | 2,946.78 | 3/4 | 2,615.39 | 3/4 | 2,283.98 |

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 377"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. 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 | 1,945.66 | 0 | 1,614.24 | 0 | 1,282.82 | 0 | 955.36 | 0 | 648.07 | 0 | 358.92 | 0 | 89.64 | 0 | | 0 | | 0 | |
| 1/4 | 1,938.75 | 1/4 | 1,607.33 | 1/4 | 1,275.92 | 1/4 | 948.74 | 1/4 | 641.84 | 1/4 | 353.10 | 1/4 | 84.24 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,931.85 | 1/2 | 1,600.43 | 1/2 | 1,269.01 | 1/2 | 942.12 | 1/2 | 635.61 | 1/2 | 347.28 | 1/2 | 78.83 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,924.94 | 3/4 | 1,593.53 | 3/4 | 1,262.11 | 3/4 | 935.53 | 3/4 | 629.42 | 3/4 | 341.50 | 3/4 | 73.47 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 1 | 1,918.04 | 1 | 1,586.62 | 1 | 1,255.21 | 1 | 928.94 | 1 | 623.22 | 1 | 335.72 | 1 | 68.10 | 1 | 1 | 1 | | 1 | |
| 1/4 | 1,911.13 | 1/4 | 1,579.72 | 1/4 | 1,248.30 | 1/4 | 922.36 | 1/4 | 617.02 | 1/4 | 329.94 | 1/4 | 62.73 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,904.23 | 1/2 | 1,572.81 | 1/2 | 1,241.40 | 1/2 | 915.77 | 1/2 | 610.83 | 1/2 | 324.15 | 1/2 | 57.36 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,897.32 | 3/4 | 1,565.91 | 3/4 | 1,234.49 | 3/4 | 909.24 | 3/4 | 604.66 | 3/4 | 318.40 | 3/4 | 52.03 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 2 | 1,890.42 | 2 | 1,559.00 | 2 | 1,227.59 | 2 | 902.70 | 2 | 598.50 | 2 | 312.66 | 2 | 46.69 | 2 | 2 | 2 | | 2 | |
| 1/4 | 1,883.51 | 1/4 | 1,552.10 | 1/4 | 1,220.68 | 1/4 | 896.17 | 1/4 | 592.34 | 1/4 | 306.91 | 1/4 | 41.36 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,876.61 | 1/2 | 1,545.19 | 1/2 | 1,213.78 | 1/2 | 889.63 | 1/2 | 586.18 | 1/2 | 301.16 | 1/2 | 36.03 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,869.71 | 3/4 | 1,538.29 | 3/4 | 1,206.87 | 3/4 | 883.13 | 3/4 | 580.05 | 3/4 | 295.45 | 3/4 | 30.97 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 3 | 1,862.80 | 3 | 1,531.39 | 3 | 1,199.97 | 3 | 876.63 | 3 | 573.92 | 3 | 289.73 | 3 | 25.92 | 3 | 3 | 3 | | 3 | |
| 1/4 | 1,855.90 | 1/4 | 1,524.48 | 1/4 | 1,193.06 | 1/4 | 870.13 | 1/4 | 567.79 | 1/4 | 284.02 | 1/4 | 20.87 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,848.99 | 1/2 | 1,517.58 | 1/2 | 1,186.16 | 1/2 | 863.63 | 1/2 | 561.67 | 1/2 | 278.31 | 1/2 | 15.81 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,842.09 | 3/4 | 1,510.67 | 3/4 | 1,179.26 | 3/4 | 857.17 | 3/4 | 555.57 | 3/4 | 272.63 | 3/4 | 12.52 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 4 | 1,835.18 | 4 | 1,503.77 | 4 | 1,172.35 | 4 | 850.70 | 4 | 549.48 | 4 | 266.95 | 4 | 9.23 | 4 | 4 | 4 | | 4 | |
| 1/4 | 1,828.28 | 1/4 | 1,496.86 | 1/4 | 1,165.45 | 1/4 | 844.24 | 1/4 | 543.39 | 1/4 | 261.27 | 1/4 | 5.94 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,821.37 | 1/2 | 1,489.96 | 1/2 | 1,158.54 | 1/2 | 837.77 | 1/2 | 537.29 | 1/2 | 255.59 | 1/2 | 2.65 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,814.47 | 3/4 | 1,483.05 | 3/4 | 1,151.66 | 3/4 | 831.34 | 3/4 | 531.23 | 3/4 | 249.95 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 5 | 1,807.57 | 5 | 1,476.15 | 5 | 1,144.77 | 5 | 824.92 | 5 | 525.18 | 5 | 244.30 | 5 | | 5 | 5 | 5 | | 5 | |
| 1/4 | 1,800.66 | 1/4 | 1,469.24 | 1/4 | 1,137.88 | 1/4 | 818.49 | 1/4 | 519.12 | 1/4 | 238.66 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,793.76 | 1/2 | 1,462.34 | 1/2 | 1,130.99 | 1/2 | 812.07 | 1/2 | 513.06 | 1/2 | 233.01 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,786.85 | 3/4 | 1,455.44 | 3/4 | 1,124.14 | 3/4 | 805.67 | 3/4 | 507.03 | 3/4 | 227.40 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 6 | 1,779.95 | 6 | 1,448.53 | 6 | 1,117.29 | 6 | 799.28 | 6 | 501.01 | 6 | 221.79 | 6 | | 6 | 6 | 6 | | 6 | |
| 1/4 | 1,773.04 | 1/4 | 1,441.63 | 1/4 | 1,110.44 | 1/4 | 792.89 | 1/4 | 494.99 | 1/4 | 216.18 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,766.14 | 1/2 | 1,434.72 | 1/2 | 1,103.58 | 1/2 | 786.50 | 1/2 | 488.96 | 1/2 | 210.57 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,759.23 | 3/4 | 1,427.82 | 3/4 | 1,096.76 | 3/4 | 780.14 | 3/4 | 482.97 | 3/4 | 205.00 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 7 | 1,752.33 | 7 | 1,420.91 | 7 | 1,089.95 | 7 | 773.77 | 7 | 476.98 | 7 | 199.42 | 7 | | 7 | 7 | 7 | | 7 | |
| 1/4 | 1,745.42 | 1/4 | 1,414.01 | 1/4 | 1,083.13 | 1/4 | 767.41 | 1/4 | 470.99 | 1/4 | 193.85 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,738.52 | 1/2 | 1,407.10 | 1/2 | 1,076.31 | 1/2 | 761.05 | 1/2 | 465.00 | 1/2 | 188.27 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,731.62 | 3/4 | 1,400.20 | 3/4 | 1,069.53 | 3/4 | 754.72 | 3/4 | 459.05 | 3/4 | 182.73 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 8 | 1,724.71 | 8 | 1,393.30 | 8 | 1,062.74 | 8 | 748.40 | 8 | 453.09 | 8 | 177.19 | 8 | | 8 | 8 | 8 | | 8 | |
| 1/4 | 1,717.81 | 1/4 | 1,386.39 | 1/4 | 1,055.96 | 1/4 | 742.07 | 1/4 | 447.14 | 1/4 | 171.65 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,710.90 | 1/2 | 1,379.49 | 1/2 | 1,049.18 | 1/2 | 735.74 | 1/2 | 441.18 | 1/2 | 166.11 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,704.00 | 3/4 | 1,372.58 | 3/4 | 1,042.43 | 3/4 | 729.45 | 3/4 | 435.26 | 3/4 | 160.60 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 9 | 1,697.09 | 9 | 1,365.68 | 9 | 1,035.68 | 9 | 723.16 | 9 | 429.34 | 9 | 155.10 | 9 | | 9 | 9 | 9 | | 9 | |
| 1/4 | 1,690.19 | 1/4 | 1,358.77 | 1/4 | 1,028.93 | 1/4 | 716.86 | 1/4 | 423.42 | 1/4 | 149.59 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,683.28 | 1/2 | 1,351.87 | 1/2 | 1,022.18 | 1/2 | 710.57 | 1/2 | 417.50 | 1/2 | 144.08 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,676.38 | 3/4 | 1,344.96 | 3/4 | 1,015.46 | 3/4 | 704.30 | 3/4 | 411.62 | 3/4 | 138.61 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 10 | 1,669.48 | 10 | 1,338.06 | 10 | 1,008.75 | 10 | 698.03 | 10 | 405.73 | 10 | 133.14 | 10 | | 10 | 10 | 10 | | 10 | |
| 1/4 | 1,662.57 | 1/4 | 1,331.15 | 1/4 | 1,002.03 | 1/4 | 691.76 | 1/4 | 399.84 | 1/4 | 127.67 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,655.67 | 1/2 | 1,324.25 | 1/2 | 995.32 | 1/2 | 685.48 | 1/2 | 393.96 | 1/2 | 122.19 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,648.76 | 3/4 | 1,317.35 | 3/4 | 988.64 | 3/4 | 679.25 | 3/4 | 388.11 | 3/4 | 116.76 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 11 | 1,641.86 | 11 | 1,310.44 | 11 | 981.96 | 11 | 673.01 | 11 | 382.25 | 11 | 111.32 | 11 | | 11 | 11 | 11 | | 11 | |
| 1/4 | 1,634.95 | 1/4 | 1,303.54 | 1/4 | 975.28 | 1/4 | 666.77 | 1/4 | 376.40 | 1/4 | 105.88 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,628.05 | 1/2 | 1,296.63 | 1/2 | 968.60 | 1/2 | 660.54 | 1/2 | 370.55 | 1/2 | 100.45 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,621.14 | 3/4 | 1,289.73 | 3/4 | 961.98 | 3/4 | 654.31 | 3/4 | 364.73 | 3/4 | 95.04 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 377"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| 0 | | 0 | | 0 | | 0 | 4,258.41 | 0 | 3,928.50 | 0 | 3,597.14 | 0 | 3,265.78 | 0 | 2,934.41 | 0 | 2,603.03 | 0 | 2,271.61 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,251.54 | 1/4 | 3,921.60 | 1/4 | 3,590.24 | 1/4 | 3,258.87 | 1/4 | 2,927.51 | 1/4 | 2,596.12 | 1/4 | 2,264.71 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,244.68 | 1/2 | 3,914.70 | 1/2 | 3,583.33 | 1/2 | 3,251.97 | 1/2 | 2,920.61 | 1/2 | 2,589.22 | 1/2 | 2,257.80 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,237.81 | 3/4 | 3,907.79 | 3/4 | 3,576.43 | 3/4 | 3,245.07 | 3/4 | 2,913.70 | 3/4 | 2,582.31 | 3/4 | 2,250.90 |
| 1 | | 1 | | 1 | | 1 | 4,230.95 | 1 | 3,900.89 | 1 | 3,569.53 | 1 | 3,238.16 | 1 | 2,906.80 | 1 | 2,575.41 | 1 | 2,243.99 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,224.09 | 1/4 | 3,893.99 | 1/4 | 3,562.62 | 1/4 | 3,231.26 | 1/4 | 2,899.90 | 1/4 | 2,568.50 | 1/4 | 2,237.09 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,217.22 | 1/2 | 3,887.08 | 1/2 | 3,555.72 | 1/2 | 3,224.36 | 1/2 | 2,892.99 | 1/2 | 2,561.60 | 1/2 | 2,230.18 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,210.36 | 3/4 | 3,880.18 | 3/4 | 3,548.82 | 3/4 | 3,217.45 | 3/4 | 2,886.09 | 3/4 | 2,554.69 | 3/4 | 2,223.28 |
| 2 | | 2 | | 2 | | 2 | 4,203.49 | 2 | 3,873.28 | 2 | 3,541.91 | 2 | 3,210.55 | 2 | 2,879.19 | 2 | 2,547.79 | 2 | 2,216.37 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,196.63 | 1/4 | 3,866.37 | 1/4 | 3,535.01 | 1/4 | 3,203.65 | 1/4 | 2,872.28 | 1/4 | 2,540.89 | 1/4 | 2,209.47 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,189.77 | 1/2 | 3,859.47 | 1/2 | 3,528.11 | 1/2 | 3,196.74 | 1/2 | 2,865.38 | 1/2 | 2,533.98 | 1/2 | 2,202.56 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,182.90 | 3/4 | 3,852.57 | 3/4 | 3,521.20 | 3/4 | 3,189.84 | 3/4 | 2,858.48 | 3/4 | 2,527.08 | 3/4 | 2,195.66 |
| 3 | | 3 | | 3 | | 3 | 4,176.04 | 3 | 3,845.66 | 3 | 3,514.30 | 3 | 3,182.94 | 3 | 2,851.57 | 3 | 2,520.17 | 3 | 2,188.76 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,169.17 | 1/4 | 3,838.76 | 1/4 | 3,507.40 | 1/4 | 3,176.03 | 1/4 | 2,844.67 | 1/4 | 2,513.27 | 1/4 | 2,181.85 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,162.31 | 1/2 | 3,831.86 | 1/2 | 3,500.49 | 1/2 | 3,169.13 | 1/2 | 2,837.77 | 1/2 | 2,506.36 | 1/2 | 2,174.95 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,155.45 | 3/4 | 3,824.95 | 3/4 | 3,493.59 | 3/4 | 3,162.23 | 3/4 | 2,830.86 | 3/4 | 2,499.46 | 3/4 | 2,168.04 |
| 4 | | 4 | | 4 | | 4 | 4,148.58 | 4 | 3,818.05 | 4 | 3,486.69 | 4 | 3,155.32 | 4 | 2,823.96 | 4 | 2,492.55 | 4 | 2,161.14 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,141.72 | 1/4 | 3,811.15 | 1/4 | 3,479.78 | 1/4 | 3,148.42 | 1/4 | 2,817.06 | 1/4 | 2,485.65 | 1/4 | 2,154.23 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,134.86 | 1/2 | 3,804.24 | 1/2 | 3,472.88 | 1/2 | 3,141.52 | 1/2 | 2,810.15 | 1/2 | 2,478.74 | 1/2 | 2,147.33 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,127.99 | 3/4 | 3,797.34 | 3/4 | 3,465.98 | 3/4 | 3,134.61 | 3/4 | 2,803.25 | 3/4 | 2,471.84 | 3/4 | 2,140.42 |
| 5 | | 5 | | 5 | | 5 | 4,121.13 | 5 | 3,790.44 | 5 | 3,459.07 | 5 | 3,127.71 | 5 | 2,796.35 | 5 | 2,464.94 | 5 | 2,133.52 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,114.26 | 1/4 | 3,783.53 | 1/4 | 3,452.17 | 1/4 | 3,120.81 | 1/4 | 2,789.44 | 1/4 | 2,458.03 | 1/4 | 2,126.62 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,107.40 | 1/2 | 3,776.63 | 1/2 | 3,445.27 | 1/2 | 3,113.90 | 1/2 | 2,782.54 | 1/2 | 2,451.13 | 1/2 | 2,119.71 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,100.54 | 3/4 | 3,769.73 | 3/4 | 3,438.36 | 3/4 | 3,107.00 | 3/4 | 2,775.64 | 3/4 | 2,444.22 | 3/4 | 2,112.81 |
| 6 | | 6 | | 6 | | 6 | 4,093.67 | 6 | 3,762.82 | 6 | 3,431.46 | 6 | 3,100.10 | 6 | 2,768.73 | 6 | 2,437.32 | 6 | 2,105.90 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,086.81 | 1/4 | 3,755.92 | 1/4 | 3,424.56 | 1/4 | 3,093.19 | 1/4 | 2,761.83 | 1/4 | 2,430.41 | 1/4 | 2,099.00 |
| 1/2 | | 1/2 | | 1/2 | 4,402.49 | 1/2 | 4,079.94 | 1/2 | 3,749.02 | 1/2 | 3,417.65 | 1/2 | 3,086.29 | 1/2 | 2,754.92 | 1/2 | 2,423.51 | 1/2 | 2,092.09 |
| 3/4 | | 3/4 | | 3/4 | 4,397.26 | 3/4 | 4,073.08 | 3/4 | 3,742.11 | 3/4 | 3,410.75 | 3/4 | 3,079.39 | 3/4 | 2,748.02 | 3/4 | 2,416.60 | 3/4 | 2,085.19 |
| 7 | | 7 | | 7 | 4,392.04 | 7 | 4,066.22 | 7 | 3,735.21 | 7 | 3,403.85 | 7 | 3,072.48 | 7 | 2,741.12 | 7 | 2,409.70 | 7 | 2,078.28 |
| 1/4 | | 1/4 | | 1/4 | 4,386.82 | 1/4 | 4,059.35 | 1/4 | 3,728.31 | 1/4 | 3,396.94 | 1/4 | 3,065.58 | 1/4 | 2,734.21 | 1/4 | 2,402.80 | 1/4 | 2,071.38 |
| 1/2 | | 1/2 | | 1/2 | 4,380.38 | 1/2 | 4,052.49 | 1/2 | 3,721.40 | 1/2 | 3,390.04 | 1/2 | 3,058.68 | 1/2 | 2,727.31 | 1/2 | 2,395.89 | 1/2 | 2,064.47 |
| 3/4 | | 3/4 | | 3/4 | 4,373.94 | 3/4 | 4,045.62 | 3/4 | 3,714.50 | 3/4 | 3,383.14 | 3/4 | 3,051.77 | 3/4 | 2,720.40 | 3/4 | 2,388.99 | 3/4 | 2,057.57 |
| 8 | | 8 | | 8 | 4,367.51 | 8 | 4,038.76 | 8 | 3,707.59 | 8 | 3,376.23 | 8 | 3,044.87 | 8 | 2,713.50 | 8 | 2,382.08 | 8 | 2,050.67 |
| 1/4 | | 1/4 | | 1/4 | 4,361.07 | 1/4 | 4,031.90 | 1/4 | 3,700.69 | 1/4 | 3,369.33 | 1/4 | 3,037.97 | 1/4 | 2,706.59 | 1/4 | 2,375.18 | 1/4 | 2,043.76 |
| 1/2 | | 1/2 | | 1/2 | 4,354.28 | 1/2 | 4,025.03 | 1/2 | 3,693.79 | 1/2 | 3,362.42 | 1/2 | 3,031.06 | 1/2 | 2,699.69 | 1/2 | 2,368.27 | 1/2 | 2,036.86 |
| 3/4 | | 3/4 | | 3/4 | 4,347.49 | 3/4 | 4,018.17 | 3/4 | 3,686.88 | 3/4 | 3,355.52 | 3/4 | 3,024.16 | 3/4 | 2,692.78 | 3/4 | 2,361.37 | 3/4 | 2,029.95 |
| 9 | | 9 | | 9 | 4,340.70 | 9 | 4,011.30 | 9 | 3,679.98 | 9 | 3,348.62 | 9 | 3,017.25 | 9 | 2,685.88 | 9 | 2,354.46 | 9 | 2,023.05 |
| 1/4 | | 1/4 | | 1/4 | 4,333.91 | 1/4 | 4,004.44 | 1/4 | 3,673.08 | 1/4 | 3,341.71 | 1/4 | 3,010.35 | 1/4 | 2,678.98 | 1/4 | 2,347.56 | 1/4 | 2,016.14 |
| 1/2 | | 1/2 | | 1/2 | 4,327.04 | 1/2 | 3,997.54 | 1/2 | 3,666.17 | 1/2 | 3,334.81 | 1/2 | 3,003.45 | 1/2 | 2,672.07 | 1/2 | 2,340.65 | 1/2 | 2,009.24 |
| 3/4 | | 3/4 | | 3/4 | 4,320.18 | 3/4 | 3,990.63 | 3/4 | 3,659.27 | 3/4 | 3,327.91 | 3/4 | 2,996.54 | 3/4 | 2,665.17 | 3/4 | 2,333.75 | 3/4 | 2,002.33 |
| 10 | | 10 | | 10 | 4,313.32 | 10 | 3,983.73 | 10 | 3,652.37 | 10 | 3,321.00 | 10 | 2,989.64 | 10 | 2,658.26 | 10 | 2,326.85 | 10 | 1,995.43 |
| 1/4 | | 1/4 | | 1/4 | 4,306.45 | 1/4 | 3,976.83 | 1/4 | 3,645.46 | 1/4 | 3,314.10 | 1/4 | 2,982.74 | 1/4 | 2,651.36 | 1/4 | 2,319.94 | 1/4 | 1,988.53 |
| 1/2 | | 1/2 | | 1/2 | 4,299.59 | 1/2 | 3,969.92 | 1/2 | 3,638.56 | 1/2 | 3,307.20 | 1/2 | 2,975.83 | 1/2 | 2,644.45 | 1/2 | 2,313.04 | 1/2 | 1,981.62 |
| 3/4 | | 3/4 | | 3/4 | 4,292.72 | 3/4 | 3,963.02 | 3/4 | 3,631.66 | 3/4 | 3,300.29 | 3/4 | 2,968.93 | 3/4 | 2,637.55 | 3/4 | 2,306.13 | 3/4 | 1,974.72 |
| 11 | | 11 | | 11 | 4,285.86 | 11 | 3,956.12 | 11 | 3,624.75 | 11 | 3,293.39 | 11 | 2,962.03 | 11 | 2,630.64 | 11 | 2,299.23 | 11 | 1,967.81 |
| 1/4 | | 1/4 | | 1/4 | 4,279.00 | 1/4 | 3,949.21 | 1/4 | 3,617.85 | 1/4 | 3,286.49 | 1/4 | 2,955.12 | 1/4 | 2,623.74 | 1/4 | 2,292.32 | 1/4 | 1,960.91 |
| 1/2 | | 1/2 | | 1/2 | 4,272.13 | 1/2 | 3,942.31 | 1/2 | 3,610.95 | 1/2 | 3,279.58 | 1/2 | 2,948.22 | 1/2 | 2,616.83 | 1/2 | 2,285.42 | 1/2 | 1,954.00 |
| 3/4 | | 3/4 | | 3/4 | 4,265.27 | 3/4 | 3,935.41 | 3/4 | 3,604.04 | 3/4 | 3,272.68 | 3/4 | 2,941.32 | 3/4 | 2,609.93 | 3/4 | 2,278.51 | 3/4 | 1,947.10 |

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 377"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. 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 | 1,940.19 | 0 | 1,608.78 | 0 | 1,277.36 | 0 | 950.10 | 0 | 641.92 | 0 | 353.15 | 0 | 84.26 | 0 | | 0 | | 0 | |
| 1/4 | 1,933.29 | 1/4 | 1,601.87 | 1/4 | 1,270.46 | 1/4 | 943.46 | 1/4 | 635.69 | 1/4 | 347.34 | 1/4 | 78.85 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,926.38 | 1/2 | 1,594.97 | 1/2 | 1,263.55 | 1/2 | 936.85 | 1/2 | 629.49 | 1/2 | 341.55 | 1/2 | 73.48 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,919.48 | 3/4 | 1,588.06 | 3/4 | 1,256.65 | 3/4 | 930.24 | 3/4 | 623.29 | 3/4 | 335.77 | 3/4 | 68.12 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 1 | 1,912.58 | 1 | 1,581.16 | 1 | 1,249.74 | 1 | 923.62 | 1 | 617.10 | 1 | 329.99 | 1 | 62.75 | 1 | 1 | 1 | | 1 | |
| 1/4 | 1,905.67 | 1/4 | 1,574.26 | 1/4 | 1,242.84 | 1/4 | 917.01 | 1/4 | 610.90 | 1/4 | 324.20 | 1/4 | 57.38 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,898.77 | 1/2 | 1,567.35 | 1/2 | 1,235.93 | 1/2 | 910.45 | 1/2 | 604.74 | 1/2 | 318.45 | 1/2 | 52.04 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,891.86 | 3/4 | 1,560.45 | 3/4 | 1,229.03 | 3/4 | 903.89 | 3/4 | 598.57 | 3/4 | 312.71 | 3/4 | 46.71 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 2 | 1,884.96 | 2 | 1,553.54 | 2 | 1,222.13 | 2 | 897.32 | 2 | 592.41 | 2 | 306.96 | 2 | 41.37 | 2 | 2 | 2 | | 2 | |
| 1/4 | 1,878.05 | 1/4 | 1,546.64 | 1/4 | 1,215.22 | 1/4 | 890.76 | 1/4 | 586.25 | 1/4 | 301.21 | 1/4 | 36.04 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,871.15 | 1/2 | 1,539.73 | 1/2 | 1,208.32 | 1/2 | 884.23 | 1/2 | 580.12 | 1/2 | 295.49 | 1/2 | 30.99 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,864.24 | 3/4 | 1,532.83 | 3/4 | 1,201.41 | 3/4 | 877.70 | 3/4 | 573.99 | 3/4 | 289.78 | 3/4 | 25.93 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 3 | 1,857.34 | 3 | 1,525.92 | 3 | 1,194.51 | 3 | 871.17 | 3 | 567.87 | 3 | 284.07 | 3 | 20.88 | 3 | 3 | 3 | | 3 | |
| 1/4 | 1,850.44 | 1/4 | 1,519.02 | 1/4 | 1,187.60 | 1/4 | 864.64 | 1/4 | 561.74 | 1/4 | 278.35 | 1/4 | 15.83 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,843.53 | 1/2 | 1,512.11 | 1/2 | 1,180.70 | 1/2 | 858.15 | 1/2 | 555.64 | 1/2 | 272.67 | 1/2 | 12.53 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,836.63 | 3/4 | 1,505.21 | 3/4 | 1,173.79 | 3/4 | 851.65 | 3/4 | 549.55 | 3/4 | 266.99 | 3/4 | 9.24 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 4 | 1,829.72 | 4 | 1,498.31 | 4 | 1,166.89 | 4 | 845.16 | 4 | 543.46 | 4 | 261.31 | 4 | 5.95 | 4 | 4 | 4 | | 4 | |
| 1/4 | 1,822.82 | 1/4 | 1,491.40 | 1/4 | 1,159.99 | 1/4 | 838.67 | 1/4 | 537.36 | 1/4 | 255.63 | 1/4 | 2.66 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,815.91 | 1/2 | 1,484.50 | 1/2 | 1,153.10 | 1/2 | 832.21 | 1/2 | 531.30 | 1/2 | 249.99 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,809.01 | 3/4 | 1,477.59 | 3/4 | 1,146.21 | 3/4 | 825.75 | 3/4 | 525.24 | 3/4 | 244.34 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 5 | 1,802.10 | 5 | 1,470.69 | 5 | 1,139.32 | 5 | 819.30 | 5 | 519.19 | 5 | 238.70 | 5 | | 5 | 5 | 5 | | 5 | |
| 1/4 | 1,795.20 | 1/4 | 1,463.78 | 1/4 | 1,132.44 | 1/4 | 812.84 | 1/4 | 513.13 | 1/4 | 233.05 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,788.29 | 1/2 | 1,456.88 | 1/2 | 1,125.58 | 1/2 | 806.42 | 1/2 | 507.10 | 1/2 | 227.44 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,781.39 | 3/4 | 1,449.97 | 3/4 | 1,118.73 | 3/4 | 800.00 | 3/4 | 501.08 | 3/4 | 221.83 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 6 | 1,774.49 | 6 | 1,443.07 | 6 | 1,111.88 | 6 | 793.58 | 6 | 495.05 | 6 | 216.22 | 6 | | 6 | 6 | 6 | | 6 | |
| 1/4 | 1,767.58 | 1/4 | 1,436.17 | 1/4 | 1,105.03 | 1/4 | 787.16 | 1/4 | 489.03 | 1/4 | 210.61 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,760.68 | 1/2 | 1,429.26 | 1/2 | 1,098.21 | 1/2 | 780.77 | 1/2 | 483.04 | 1/2 | 205.04 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,753.77 | 3/4 | 1,422.36 | 3/4 | 1,091.39 | 3/4 | 774.38 | 3/4 | 477.05 | 3/4 | 199.46 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 7 | 1,746.87 | 7 | 1,415.45 | 7 | 1,084.57 | 7 | 767.99 | 7 | 471.06 | 7 | 193.88 | 7 | | 7 | 7 | 7 | | 7 | |
| 1/4 | 1,739.96 | 1/4 | 1,408.55 | 1/4 | 1,077.75 | 1/4 | 761.59 | 1/4 | 465.07 | 1/4 | 188.31 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,733.06 | 1/2 | 1,401.64 | 1/2 | 1,070.97 | 1/2 | 755.24 | 1/2 | 459.11 | 1/2 | 182.77 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,726.15 | 3/4 | 1,394.74 | 3/4 | 1,064.18 | 3/4 | 748.88 | 3/4 | 453.16 | 3/4 | 177.22 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 8 | 1,719.25 | 8 | 1,387.83 | 8 | 1,057.40 | 8 | 742.53 | 8 | 447.20 | 8 | 171.68 | 8 | | 8 | 8 | 8 | | 8 | |
| 1/4 | 1,712.35 | 1/4 | 1,380.93 | 1/4 | 1,050.62 | 1/4 | 736.17 | 1/4 | 441.25 | 1/4 | 166.14 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,705.44 | 1/2 | 1,374.02 | 1/2 | 1,043.87 | 1/2 | 729.85 | 1/2 | 435.32 | 1/2 | 160.63 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,698.54 | 3/4 | 1,367.12 | 3/4 | 1,037.12 | 3/4 | 723.52 | 3/4 | 429.40 | 3/4 | 155.13 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 9 | 1,691.63 | 9 | 1,360.22 | 9 | 1,030.37 | 9 | 717.20 | 9 | 423.48 | 9 | 149.62 | 9 | | 9 | 9 | 9 | | 9 | |
| 1/4 | 1,684.73 | 1/4 | 1,353.31 | 1/4 | 1,023.62 | 1/4 | 710.88 | 1/4 | 417.56 | 1/4 | 144.11 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,677.82 | 1/2 | 1,346.41 | 1/2 | 1,016.91 | 1/2 | 704.58 | 1/2 | 411.67 | 1/2 | 138.64 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,670.92 | 3/4 | 1,339.50 | 3/4 | 1,010.19 | 3/4 | 698.28 | 3/4 | 405.79 | 3/4 | 133.17 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 10 | 1,664.01 | 10 | 1,332.60 | 10 | 1,003.48 | 10 | 691.98 | 10 | 399.90 | 10 | 127.69 | 10 | | 10 | 10 | 10 | | 10 | |
| 1/4 | 1,657.11 | 1/4 | 1,325.69 | 1/4 | 996.76 | 1/4 | 685.68 | 1/4 | 394.01 | 1/4 | 122.22 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,650.20 | 1/2 | 1,318.79 | 1/2 | 990.08 | 1/2 | 679.41 | 1/2 | 388.16 | 1/2 | 116.78 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,643.30 | 3/4 | 1,311.88 | 3/4 | 983.40 | 3/4 | 673.15 | 3/4 | 382.31 | 3/4 | 111.34 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 11 | 1,636.40 | 11 | 1,304.98 | 11 | 976.72 | 11 | 666.88 | 11 | 376.46 | 11 | 105.91 | 11 | | 11 | 11 | 11 | | 11 | |
| 1/4 | 1,629.49 | 1/4 | 1,298.08 | 1/4 | 970.04 | 1/4 | 660.61 | 1/4 | 370.61 | 1/4 | 100.47 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,622.59 | 1/2 | 1,291.17 | 1/2 | 963.39 | 1/2 | 654.38 | 1/2 | 364.79 | 1/2 | 95.06 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,615.68 | 3/4 | 1,284.27 | 3/4 | 956.75 | 3/4 | 648.15 | 3/4 | 358.97 | 3/4 | 89.66 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

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



BARGE "EMS 377"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|----|-------|----|-------|----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,173.91 | 1/4 | 4,787.60 | 1/4 | 4,399.56 | 1/4 | 4,011.52 | 1/4 | 3,623.47 | 1/4 | 3,235.40 | 1/4 | 2,847.31 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,165.87 | 1/2 | 4,779.51 | 1/2 | 4,391.47 | 1/2 | 4,003.43 | 1/2 | 3,615.39 | 1/2 | 3,227.32 | 1/2 | 2,839.22 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,157.83 | 3/4 | 4,771.43 | 3/4 | 4,383.39 | 3/4 | 3,995.35 | 3/4 | 3,607.31 | 3/4 | 3,219.23 | 3/4 | 2,831.13 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5,149.80 | 1 | 4,763.35 | 1 | 4,375.30 | 1 | 3,987.26 | 1 | 3,599.22 | 1 | 3,211.15 | 1 | 2,823.05 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,141.76 | 1/4 | 4,755.26 | 1/4 | 4,367.22 | 1/4 | 3,979.18 | 1/4 | 3,591.14 | 1/4 | 3,203.06 | 1/4 | 2,814.96 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,133.72 | 1/2 | 4,747.18 | 1/2 | 4,359.14 | 1/2 | 3,971.09 | 1/2 | 3,583.05 | 1/2 | 3,194.98 | 1/2 | 2,806.88 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,125.68 | 3/4 | 4,739.09 | 3/4 | 4,351.05 | 3/4 | 3,963.01 | 3/4 | 3,574.97 | 3/4 | 3,186.89 | 3/4 | 2,798.79 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5,117.65 | 2 | 4,731.01 | 2 | 4,342.97 | 2 | 3,954.93 | 2 | 3,566.88 | 2 | 3,178.81 | 2 | 2,790.71 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,109.61 | 1/4 | 4,722.92 | 1/4 | 4,334.88 | 1/4 | 3,946.84 | 1/4 | 3,558.80 | 1/4 | 3,170.72 | 1/4 | 2,782.62 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,101.57 | 1/2 | 4,714.84 | 1/2 | 4,326.80 | 1/2 | 3,938.76 | 1/2 | 3,550.72 | 1/2 | 3,162.64 | 1/2 | 2,774.54 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,093.53 | 3/4 | 4,706.76 | 3/4 | 4,318.71 | 3/4 | 3,930.67 | 3/4 | 3,542.63 | 3/4 | 3,154.55 | 3/4 | 2,766.45 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5,085.50 | 3 | 4,698.67 | 3 | 4,310.63 | 3 | 3,922.59 | 3 | 3,534.55 | 3 | 3,146.46 | 3 | 2,758.37 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,077.46 | 1/4 | 4,690.59 | 1/4 | 4,302.55 | 1/4 | 3,914.50 | 1/4 | 3,526.46 | 1/4 | 3,138.38 | 1/4 | 2,750.28 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,069.42 | 1/2 | 4,682.50 | 1/2 | 4,294.46 | 1/2 | 3,906.42 | 1/2 | 3,518.38 | 1/2 | 3,130.29 | 1/2 | 2,742.20 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,061.38 | 3/4 | 4,674.42 | 3/4 | 4,286.38 | 3/4 | 3,898.34 | 3/4 | 3,510.29 | 3/4 | 3,122.21 | 3/4 | 2,734.11 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5,053.35 | 4 | 4,666.34 | 4 | 4,278.29 | 4 | 3,890.25 | 4 | 3,502.21 | 4 | 3,114.12 | 4 | 2,726.02 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,045.31 | 1/4 | 4,658.25 | 1/4 | 4,270.21 | 1/4 | 3,882.17 | 1/4 | 3,494.13 | 1/4 | 3,106.04 | 1/4 | 2,717.94 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,037.27 | 1/2 | 4,650.17 | 1/2 | 4,262.13 | 1/2 | 3,874.08 | 1/2 | 3,486.04 | 1/2 | 3,097.95 | 1/2 | 2,709.85 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,029.24 | 3/4 | 4,642.08 | 3/4 | 4,254.04 | 3/4 | 3,866.00 | 3/4 | 3,477.96 | 3/4 | 3,089.87 | 3/4 | 2,701.77 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5,021.20 | 5 | 4,634.00 | 5 | 4,245.96 | 5 | 3,857.92 | 5 | 3,469.87 | 5 | 3,081.78 | 5 | 2,693.68 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,013.16 | 1/4 | 4,625.91 | 1/4 | 4,237.87 | 1/4 | 3,849.83 | 1/4 | 3,461.79 | 1/4 | 3,073.70 | 1/4 | 2,685.60 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,005.12 | 1/2 | 4,617.83 | 1/2 | 4,229.79 | 1/2 | 3,841.75 | 1/2 | 3,453.71 | 1/2 | 3,065.61 | 1/2 | 2,677.51 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,997.09 | 3/4 | 4,609.75 | 3/4 | 4,221.70 | 3/4 | 3,833.66 | 3/4 | 3,445.62 | 3/4 | 3,057.53 | 3/4 | 2,669.43 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4,989.05 | 6 | 4,601.66 | 6 | 4,213.62 | 6 | 3,825.58 | 6 | 3,437.54 | 6 | 3,049.44 | 6 | 2,661.34 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,981.01 | 1/4 | 4,593.58 | 1/4 | 4,205.54 | 1/4 | 3,817.49 | 1/4 | 3,429.45 | 1/4 | 3,041.35 | 1/4 | 2,653.26 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,972.97 | 1/2 | 4,585.49 | 1/2 | 4,197.45 | 1/2 | 3,809.41 | 1/2 | 3,421.37 | 1/2 | 3,033.27 | 1/2 | 2,645.17 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,342.62 | 3/4 | 4,964.94 | 3/4 | 4,577.41 | 3/4 | 4,189.37 | 3/4 | 3,801.33 | 3/4 | 3,413.28 | 3/4 | 3,025.18 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4,956.90 | 7 | 4,569.32 | 7 | 4,181.28 | 7 | 3,793.24 | 7 | 3,405.20 | 7 | 3,017.10 | 7 | 2,629.00 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,336.50 | 1/4 | 4,948.86 | 1/4 | 4,561.24 | 1/4 | 4,173.20 | 1/4 | 3,785.16 | 1/4 | 3,397.11 | 1/4 | 3,009.01 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,324.28 | 1/2 | 4,940.82 | 1/2 | 4,553.16 | 1/2 | 4,165.11 | 1/2 | 3,777.07 | 1/2 | 3,389.03 | 1/2 | 3,000.93 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,316.74 | 3/4 | 4,932.79 | 3/4 | 4,545.07 | 3/4 | 4,157.03 | 3/4 | 3,768.99 | 3/4 | 3,380.94 | 3/4 | 2,992.84 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 5,309.20 | 8 | 4,924.75 | 8 | 4,536.99 | 8 | 4,148.95 | 8 | 3,760.90 | 8 | 3,372.86 | 8 | 2,984.76 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,301.66 | 1/4 | 4,916.71 | 1/4 | 4,528.90 | 1/4 | 4,140.86 | 1/4 | 3,752.82 | 1/4 | 3,364.77 | 1/4 | 2,976.67 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,294.13 | 1/2 | 4,908.67 | 1/2 | 4,520.82 | 1/2 | 4,132.78 | 1/2 | 3,744.74 | 1/2 | 3,356.69 | 1/2 | 2,968.59 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,286.17 | 3/4 | 4,900.64 | 3/4 | 4,512.74 | 3/4 | 4,124.69 | 3/4 | 3,736.65 | 3/4 | 3,348.60 | 3/4 | 2,960.50 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 5,278.22 | 9 | 4,892.60 | 9 | 4,504.65 | 9 | 4,116.61 | 9 | 3,728.57 | 9 | 3,340.51 | 9 | 2,952.42 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,270.27 | 1/4 | 4,884.56 | 1/4 | 4,496.57 | 1/4 | 4,108.53 | 1/4 | 3,720.48 | 1/4 | 3,332.43 | 1/4 | 2,944.33 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,262.32 | 1/2 | 4,876.52 | 1/2 | 4,488.48 | 1/2 | 4,100.44 | 1/2 | 3,712.40 | 1/2 | 3,324.34 | 1/2 | 2,936.24 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,254.28 | 3/4 | 4,868.44 | 3/4 | 4,480.40 | 3/4 | 4,092.36 | 3/4 | 3,704.32 | 3/4 | 3,316.26 | 3/4 | 2,928.16 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 5,246.25 | 10 | 4,860.36 | 10 | 4,472.31 | 10 | 4,084.27 | 10 | 3,696.23 | 10 | 3,308.17 | 10 | 2,920.07 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,238.21 | 1/4 | 4,852.27 | 1/4 | 4,464.23 | 1/4 | 4,076.19 | 1/4 | 3,688.15 | 1/4 | 3,300.09 | 1/4 | 2,911.99 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,230.17 | 1/2 | 4,844.19 | 1/2 | 4,456.15 | 1/2 | 4,068.10 | 1/2 | 3,680.06 | 1/2 | 3,292.00 | 1/2 | 2,903.90 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,222.13 | 3/4 | 4,836.10 | 3/4 | 4,448.06 | 3/4 | 4,060.02 | 3/4 | 3,671.98 | 3/4 | 3,283.92 | 3/4 | 2,895.82 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 5,214.10 | 11 | 4,828.02 | 11 | 4,439.98 | 11 | 4,051.94 | 11 | 3,663.89 | 11 | 3,275.83 | 11 | 2,887.73 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 5,206.06 | 1/4 | 4,819.94 | 1/4 | 4,431.89 | 1/4 | 4,043.85 | 1/4 | 3,655.81 | 1/4 | 3,267.75 | 1/4 | 2,879.65 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 5,198.02 | 1/2 | 4,811.85 | 1/2 | 4,423.81 | 1/2 | 4,035.77 | 1/2 | 3,647.73 | 1/2 | 3,259.66 | 1/2 | 2,871.56 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 5,189.98 | 3/4 | 4,803.77 | 3/4 | 4,415.73 | 3/4 | 4,027.68 | 3/4 | 3,639.64 | 3/4 | 3,251.58 | 3/4 | 2,863.48 |

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 377"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

| 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 | 2,459.21 | 1/4 | 2,071.11 | 1/4 | 1,683.01 | 1/4 | 1,294.91 | 1/4 | 906.81 | 1/4 | 533.66 | 1/4 | 145.90 | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,451.12 | 1/2 | 2,063.02 | 1/2 | 1,674.92 | 1/2 | 1,286.82 | 1/2 | 898.72 | 1/2 | 525.89 | 1/2 | 137.82 | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,443.04 | 3/4 | 2,054.94 | 3/4 | 1,666.84 | 3/4 | 1,278.74 | 3/4 | 890.64 | 3/4 | 517.80 | 3/4 | 129.73 | 3/4 | | 3/4 | | 3/4 | | | |
| 1 | 2,434.95 | 1 | 2,046.85 | 1 | 1,658.75 | 1 | 1,270.65 | 1 | 883.16 | 1 | 509.72 | 1 | 121.65 | 1 | | 1 | | 1 | | | |
| 1/4 | 2,426.86 | 1/4 | 2,038.77 | 1/4 | 1,650.67 | 1/4 | 1,262.57 | 1/4 | 875.38 | 1/4 | 501.63 | 1/4 | 113.56 | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,418.78 | 1/2 | 2,030.68 | 1/2 | 1,642.58 | 1/2 | 1,254.48 | 1/2 | 867.60 | 1/2 | 493.55 | 1/2 | 105.48 | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,410.69 | 3/4 | 2,022.59 | 3/4 | 1,634.50 | 3/4 | 1,246.40 | 3/4 | 859.82 | 3/4 | 485.46 | 3/4 | 97.39 | 3/4 | | 3/4 | | 3/4 | | | |
| 2 | 2,402.61 | 2 | 2,014.51 | 2 | 1,626.41 | 2 | 1,238.31 | 2 | 852.04 | 2 | 477.38 | 2 | 89.31 | 2 | | 2 | | 2 | | | |
| 1/4 | 2,394.52 | 1/4 | 2,006.42 | 1/4 | 1,618.32 | 1/4 | 1,230.23 | 1/4 | 844.26 | 1/4 | 469.29 | 1/4 | 81.22 | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,386.44 | 1/2 | 1,998.34 | 1/2 | 1,610.24 | 1/2 | 1,222.14 | 1/2 | 836.48 | 1/2 | 461.21 | 1/2 | 73.14 | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,378.35 | 3/4 | 1,990.25 | 3/4 | 1,602.15 | 3/4 | 1,214.05 | 3/4 | 828.71 | 3/4 | 453.12 | 3/4 | 65.34 | 3/4 | | 3/4 | | 3/4 | | | |
| 3 | 2,370.27 | 3 | 1,982.17 | 3 | 1,594.07 | 3 | 1,205.97 | 3 | 820.94 | 3 | 445.04 | 3 | 57.55 | 3 | | 3 | | 3 | | | |
| 1/4 | 2,362.18 | 1/4 | 1,974.08 | 1/4 | 1,585.98 | 1/4 | 1,197.88 | 1/4 | 813.16 | 1/4 | 436.95 | 1/4 | 49.75 | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,354.10 | 1/2 | 1,966.00 | 1/2 | 1,577.90 | 1/2 | 1,189.80 | 1/2 | 805.39 | 1/2 | 428.87 | 1/2 | 41.95 | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,346.01 | 3/4 | 1,957.91 | 3/4 | 1,569.81 | 3/4 | 1,181.71 | 3/4 | 797.62 | 3/4 | 420.78 | 3/4 | 36.18 | 3/4 | | 3/4 | | 3/4 | | | |
| 4 | 2,337.93 | 4 | 1,949.83 | 4 | 1,561.73 | 4 | 1,173.63 | 4 | 789.86 | 4 | 412.70 | 4 | 30.41 | 4 | | 4 | | 4 | | | |
| 1/4 | 2,329.84 | 1/4 | 1,941.74 | 1/4 | 1,553.64 | 1/4 | 1,165.54 | 1/4 | 782.10 | 1/4 | 404.61 | 1/4 | 24.63 | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,321.75 | 1/2 | 1,933.66 | 1/2 | 1,545.56 | 1/2 | 1,157.46 | 1/2 | 774.33 | 1/2 | 396.53 | 1/2 | 18.86 | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,313.67 | 3/4 | 1,925.57 | 3/4 | 1,537.47 | 3/4 | 1,149.37 | 3/4 | 766.57 | 3/4 | 388.44 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 5 | 2,305.58 | 5 | 1,917.48 | 5 | 1,529.39 | 5 | 1,141.29 | 5 | 758.80 | 5 | 380.36 | 5 | | 5 | | 5 | | 5 | | | |
| 1/4 | 2,297.50 | 1/4 | 1,909.40 | 1/4 | 1,521.30 | 1/4 | 1,133.20 | 1/4 | 751.04 | 1/4 | 372.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,289.41 | 1/2 | 1,901.31 | 1/2 | 1,513.21 | 1/2 | 1,125.12 | 1/2 | 743.28 | 1/2 | 364.19 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,281.33 | 3/4 | 1,893.23 | 3/4 | 1,505.13 | 3/4 | 1,117.03 | 3/4 | 735.51 | 3/4 | 356.11 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 6 | 2,273.24 | 6 | 1,885.14 | 6 | 1,497.04 | 6 | 1,108.94 | 6 | 727.75 | 6 | 348.02 | 6 | | 6 | | 6 | | 6 | | | |
| 1/4 | 2,265.16 | 1/4 | 1,877.06 | 1/4 | 1,488.96 | 1/4 | 1,100.86 | 1/4 | 719.98 | 1/4 | 339.94 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,257.07 | 1/2 | 1,868.97 | 1/2 | 1,480.87 | 1/2 | 1,092.77 | 1/2 | 712.22 | 1/2 | 331.85 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,248.99 | 3/4 | 1,860.89 | 3/4 | 1,472.79 | 3/4 | 1,084.69 | 3/4 | 704.46 | 3/4 | 323.77 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 7 | 2,240.90 | 7 | 1,852.80 | 7 | 1,464.70 | 7 | 1,076.60 | 7 | 696.70 | 7 | 315.68 | 7 | | 7 | | 7 | | 7 | | | |
| 1/4 | 2,232.81 | 1/4 | 1,844.72 | 1/4 | 1,456.62 | 1/4 | 1,068.52 | 1/4 | 688.94 | 1/4 | 307.60 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,224.73 | 1/2 | 1,836.63 | 1/2 | 1,448.53 | 1/2 | 1,060.43 | 1/2 | 681.18 | 1/2 | 299.51 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,216.64 | 3/4 | 1,828.54 | 3/4 | 1,440.45 | 3/4 | 1,052.35 | 3/4 | 673.42 | 3/4 | 291.43 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 8 | 2,208.56 | 8 | 1,820.46 | 8 | 1,432.36 | 8 | 1,044.26 | 8 | 665.66 | 8 | 283.34 | 8 | | 8 | | 8 | | 8 | | | |
| 1/4 | 2,200.47 | 1/4 | 1,812.37 | 1/4 | 1,424.27 | 1/4 | 1,036.18 | 1/4 | 657.90 | 1/4 | 275.26 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,192.39 | 1/2 | 1,804.29 | 1/2 | 1,416.19 | 1/2 | 1,028.09 | 1/2 | 650.15 | 1/2 | 267.17 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,184.30 | 3/4 | 1,796.20 | 3/4 | 1,408.10 | 3/4 | 1,020.00 | 3/4 | 642.38 | 3/4 | 259.09 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 9 | 2,176.22 | 9 | 1,788.12 | 9 | 1,400.02 | 9 | 1,011.92 | 9 | 634.62 | 9 | 251.00 | 9 | | 9 | | 9 | | 9 | | | |
| 1/4 | 2,168.13 | 1/4 | 1,780.03 | 1/4 | 1,391.93 | 1/4 | 1,003.83 | 1/4 | 626.85 | 1/4 | 242.92 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,160.05 | 1/2 | 1,771.95 | 1/2 | 1,383.85 | 1/2 | 995.75 | 1/2 | 619.09 | 1/2 | 234.83 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,151.96 | 3/4 | 1,763.86 | 3/4 | 1,375.76 | 3/4 | 987.66 | 3/4 | 611.33 | 3/4 | 226.75 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 10 | 2,143.88 | 10 | 1,755.78 | 10 | 1,367.68 | 10 | 979.58 | 10 | 603.56 | 10 | 218.66 | 10 | | 10 | | 10 | | 10 | | | |
| 1/4 | 2,135.79 | 1/4 | 1,747.69 | 1/4 | 1,359.59 | 1/4 | 971.49 | 1/4 | 595.80 | 1/4 | 210.58 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,127.70 | 1/2 | 1,739.61 | 1/2 | 1,351.51 | 1/2 | 963.41 | 1/2 | 588.03 | 1/2 | 202.49 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,119.62 | 3/4 | 1,731.52 | 3/4 | 1,343.42 | 3/4 | 955.32 | 3/4 | 580.27 | 3/4 | 194.41 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |
| 11 | 2,111.53 | 11 | 1,723.43 | 11 | 1,335.34 | 11 | 947.24 | 11 | 572.51 | 11 | 186.32 | 11 | | 11 | | 11 | | 11 | | | |
| 1/4 | 2,103.45 | 1/4 | 1,715.35 | 1/4 | 1,327.25 | 1/4 | 939.15 | 1/4 | 564.74 | 1/4 | 178.24 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | | |
| 1/2 | 2,095.36 | 1/2 | 1,707.26 | 1/2 | 1,319.16 | 1/2 | 931.07 | 1/2 | 556.98 | 1/2 | 170.16 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | | |
| 3/4 | 2,087.28 | 3/4 | 1,699.18 | 3/4 | 1,311.08 | 3/4 | 922.98 | 3/4 | 549.21 | 3/4 | 162.07 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2012

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



BARGE "EMS 377"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-------|-----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|----|----------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | | |
| 0 | | 0 | | 0 | | 0 | 5,179.02 | 0 | 4,792.80 | 0 | 4,404.89 | 0 | 4,016.98 | 0 | 3,629.06 | 0 | 3,241.12 | 0 | 2,853.15 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 5,170.98 | 1/4 | 4,784.72 | 1/4 | 4,396.81 | 1/4 | 4,008.89 | 1/4 | 3,620.98 | 1/4 | 3,233.04 | 1/4 | 2,845.07 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5,162.95 | 1/2 | 4,776.64 | 1/2 | 4,388.72 | 1/2 | 4,000.81 | 1/2 | 3,612.90 | 1/2 | 3,224.96 | 1/2 | 2,836.99 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 5,154.91 | 3/4 | 4,768.55 | 3/4 | 4,380.64 | 3/4 | 3,992.73 | 3/4 | 3,604.82 | 3/4 | 3,216.87 | 3/4 | 2,828.90 | | |
| 1 | | 1 | | 1 | | 1 | 5,146.88 | 1 | 4,760.47 | 1 | 4,372.56 | 1 | 3,984.65 | 1 | 3,596.74 | 1 | 3,208.79 | 1 | 2,820.82 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 5,138.84 | 1/4 | 4,752.39 | 1/4 | 4,364.48 | 1/4 | 3,976.57 | 1/4 | 3,588.66 | 1/4 | 3,200.71 | 1/4 | 2,812.74 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5,130.81 | 1/2 | 4,744.31 | 1/2 | 4,356.40 | 1/2 | 3,968.49 | 1/2 | 3,580.57 | 1/2 | 3,192.63 | 1/2 | 2,804.66 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 5,122.77 | 3/4 | 4,736.23 | 3/4 | 4,348.32 | 3/4 | 3,960.40 | 3/4 | 3,572.49 | 3/4 | 3,184.54 | 3/4 | 2,796.57 | | |
| 2 | | 2 | | 2 | | 2 | 5,114.74 | 2 | 4,728.15 | 2 | 4,340.24 | 2 | 3,952.32 | 2 | 3,564.41 | 2 | 3,176.46 | 2 | 2,788.49 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 5,106.71 | 1/4 | 4,720.07 | 1/4 | 4,332.15 | 1/4 | 3,944.24 | 1/4 | 3,556.33 | 1/4 | 3,168.38 | 1/4 | 2,780.41 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5,098.67 | 1/2 | 4,711.98 | 1/2 | 4,324.07 | 1/2 | 3,936.16 | 1/2 | 3,548.25 | 1/2 | 3,160.30 | 1/2 | 2,772.33 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 5,090.64 | 3/4 | 4,703.90 | 3/4 | 4,315.99 | 3/4 | 3,928.08 | 3/4 | 3,540.17 | 3/4 | 3,152.21 | 3/4 | 2,764.24 | | |
| 3 | | 3 | | 3 | | 3 | 5,082.60 | 3 | 4,695.82 | 3 | 4,307.91 | 3 | 3,920.00 | 3 | 3,532.09 | 3 | 3,144.13 | 3 | 2,756.16 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 5,074.57 | 1/4 | 4,687.74 | 1/4 | 4,299.83 | 1/4 | 3,911.92 | 1/4 | 3,524.00 | 1/4 | 3,136.05 | 1/4 | 2,748.08 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5,066.53 | 1/2 | 4,679.66 | 1/2 | 4,291.75 | 1/2 | 3,903.83 | 1/2 | 3,515.92 | 1/2 | 3,127.96 | 1/2 | 2,740.00 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 5,058.50 | 3/4 | 4,671.58 | 3/4 | 4,283.66 | 3/4 | 3,895.75 | 3/4 | 3,507.84 | 3/4 | 3,119.88 | 3/4 | 2,731.91 | | |
| 4 | | 4 | | 4 | | 4 | 5,050.47 | 4 | 4,663.50 | 4 | 4,275.58 | 4 | 3,887.67 | 4 | 3,499.76 | 4 | 3,111.80 | 4 | 2,723.83 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 5,042.43 | 1/4 | 4,655.41 | 1/4 | 4,267.50 | 1/4 | 3,879.59 | 1/4 | 3,491.68 | 1/4 | 3,103.72 | 1/4 | 2,715.75 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5,034.40 | 1/2 | 4,647.33 | 1/2 | 4,259.42 | 1/2 | 3,871.51 | 1/2 | 3,483.60 | 1/2 | 3,095.63 | 1/2 | 2,707.66 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 5,026.36 | 3/4 | 4,639.25 | 3/4 | 4,251.34 | 3/4 | 3,863.43 | 3/4 | 3,475.51 | 3/4 | 3,087.55 | 3/4 | 2,699.58 | | |
| 5 | | 5 | | 5 | | 5 | 5,018.33 | 5 | 4,631.17 | 5 | 4,243.26 | 5 | 3,855.35 | 5 | 3,467.43 | 5 | 3,079.47 | 5 | 2,691.50 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 5,010.29 | 1/4 | 4,623.09 | 1/4 | 4,235.18 | 1/4 | 3,847.26 | 1/4 | 3,459.35 | 1/4 | 3,071.39 | 1/4 | 2,683.42 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 5,002.26 | 1/2 | 4,615.01 | 1/2 | 4,227.09 | 1/2 | 3,839.18 | 1/2 | 3,451.27 | 1/2 | 3,063.30 | 1/2 | 2,675.33 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,994.22 | 3/4 | 4,606.92 | 3/4 | 4,219.01 | 3/4 | 3,831.10 | 3/4 | 3,443.19 | 3/4 | 3,055.22 | 3/4 | 2,667.25 | | |
| 6 | | 6 | | 6 | | 6 | 4,986.19 | 6 | 4,598.84 | 6 | 4,210.93 | 6 | 3,823.02 | 6 | 3,435.11 | 6 | 3,047.14 | 6 | 2,659.17 | | |
| 1/4 | 1/4 | 1/4 | 5,355.70 | 1/4 | 4,978.16 | 1/4 | 4,590.76 | 1/4 | 4,202.85 | 1/4 | 3,814.94 | 1/4 | 3,427.02 | 1/4 | 3,039.05 | 1/4 | 2,651.09 | | | | |
| 1/2 | 1/2 | 1/2 | 5,349.59 | 1/2 | 4,970.12 | 1/2 | 4,582.68 | 1/2 | 4,194.77 | 1/2 | 3,806.86 | 1/2 | 3,418.94 | 1/2 | 3,030.97 | 1/2 | 2,643.00 | | | | |
| 3/4 | 3/4 | 3/4 | 5,343.48 | 3/4 | 4,962.09 | 3/4 | 4,574.60 | 3/4 | 4,186.69 | 3/4 | 3,798.77 | 3/4 | 3,410.86 | 3/4 | 3,022.89 | 3/4 | 2,634.92 | | | | |
| 7 | | 7 | | 7 | | 7 | 5,337.37 | 7 | 4,954.05 | 7 | 4,566.52 | 7 | 4,178.61 | 7 | 3,790.69 | 7 | 3,402.78 | 7 | 3,014.81 | 7 | 2,626.84 |
| 1/4 | 1/4 | 1/4 | 5,329.83 | 1/4 | 4,946.02 | 1/4 | 4,558.44 | 1/4 | 4,170.52 | 1/4 | 3,782.61 | 1/4 | 3,394.69 | 1/4 | 3,006.72 | 1/4 | 2,618.75 | | | | |
| 1/2 | 1/2 | 1/2 | 5,322.30 | 1/2 | 4,937.98 | 1/2 | 4,550.35 | 1/2 | 4,162.44 | 1/2 | 3,774.53 | 1/2 | 3,386.61 | 1/2 | 2,998.64 | 1/2 | 2,610.67 | | | | |
| 3/4 | 3/4 | 3/4 | 5,314.76 | 3/4 | 4,929.95 | 3/4 | 4,542.27 | 3/4 | 4,154.36 | 3/4 | 3,766.45 | 3/4 | 3,378.53 | 3/4 | 2,990.56 | 3/4 | 2,602.59 | | | | |
| 8 | | 8 | | 8 | | 8 | 5,307.22 | 8 | 4,921.91 | 8 | 4,534.19 | 8 | 4,146.28 | 8 | 3,758.37 | 8 | 3,370.45 | 8 | 2,982.48 | 8 | 2,594.51 |
| 1/4 | 1/4 | 1/4 | 5,299.27 | 1/4 | 4,913.88 | 1/4 | 4,526.11 | 1/4 | 4,138.20 | 1/4 | 3,750.29 | 1/4 | 3,362.36 | 1/4 | 2,974.39 | 1/4 | 2,586.42 | | | | |
| 1/2 | 1/2 | 1/2 | 5,291.33 | 1/2 | 4,905.85 | 1/2 | 4,518.03 | 1/2 | 4,130.12 | 1/2 | 3,742.20 | 1/2 | 3,354.28 | 1/2 | 2,966.31 | 1/2 | 2,578.34 | | | | |
| 3/4 | 3/4 | 3/4 | 5,283.38 | 3/4 | 4,897.81 | 3/4 | 4,509.95 | 3/4 | 4,122.03 | 3/4 | 3,734.12 | 3/4 | 3,346.20 | 3/4 | 2,958.23 | 3/4 | 2,570.26 | | | | |
| 9 | | 9 | | 9 | | 9 | 5,275.43 | 9 | 4,889.78 | 9 | 4,501.87 | 9 | 4,113.95 | 9 | 3,726.04 | 9 | 3,338.11 | 9 | 2,950.15 | 9 | 2,562.18 |
| 1/4 | 1/4 | 1/4 | 5,267.39 | 1/4 | 4,881.70 | 1/4 | 4,493.78 | 1/4 | 4,105.87 | 1/4 | 3,717.96 | 1/4 | 3,330.03 | 1/4 | 2,942.06 | 1/4 | 2,554.09 | | | | |
| 1/2 | 1/2 | 1/2 | 5,259.36 | 1/2 | 4,873.61 | 1/2 | 4,485.70 | 1/2 | 4,097.79 | 1/2 | 3,709.88 | 1/2 | 3,321.95 | 1/2 | 2,933.98 | 1/2 | 2,546.01 | | | | |
| 3/4 | 3/4 | 3/4 | 5,251.33 | 3/4 | 4,865.53 | 3/4 | 4,477.62 | 3/4 | 4,089.71 | 3/4 | 3,701.80 | 3/4 | 3,313.87 | 3/4 | 2,925.90 | 3/4 | 2,537.93 | | | | |
| 10 | | 10 | | 10 | | 10 | 5,243.29 | 10 | 4,857.45 | 10 | 4,469.54 | 10 | 4,081.63 | 10 | 3,693.72 | 10 | 3,305.78 | 10 | 2,917.81 | 10 | 2,529.84 |
| 1/4 | 1/4 | 1/4 | 5,235.26 | 1/4 | 4,849.37 | 1/4 | 4,461.46 | 1/4 | 4,073.55 | 1/4 | 3,685.63 | 1/4 | 3,297.70 | 1/4 | 2,909.73 | 1/4 | 2,521.76 | | | | |
| 1/2 | 1/2 | 1/2 | 5,227.22 | 1/2 | 4,841.29 | 1/2 | 4,453.38 | 1/2 | 4,065.46 | 1/2 | 3,677.55 | 1/2 | 3,289.62 | 1/2 | 2,901.65 | 1/2 | 2,513.68 | | | | |
| 3/4 | 3/4 | 3/4 | 5,219.19 | 3/4 | 4,833.21 | 3/4 | 4,445.29 | 3/4 | 4,057.38 | 3/4 | 3,669.47 | 3/4 | 3,281.54 | 3/4 | 2,893.57 | 3/4 | 2,505.60 | | | | |
| 11 | | 11 | | 11 | | 11 | 5,211.15 | 11 | 4,825.13 | 11 | 4,437.21 | 11 | 4,049.30 | 11 | 3,661.39 | 11 | 3,273.45 | 11 | 2,885.48 | 11 | 2,497.51 |
| 1/4 | 1/4 | 1/4 | 5,203.12 | 1/4 | 4,817.04 | 1/4 | 4,429.13 | 1/4 | 4,041.22 | 1/4 | 3,653.31 | 1/4 | 3,265.37 | 1/4 | 2,877.40 | 1/4 | 2,489.43 | | | | |
| 1/2 | 1/2 | 1/2 | 5,195.08 | 1/2 | 4,808.96 | 1/2 | 4,421.05 | 1/2 | 4,033.14 | 1/2 | 3,645.23 | 1/2 | 3,257.29 | 1/2 | 2,869.32 | 1/2 | 2,481.35 | | | | |
| 3/4 | 3/4 | 3/4 | 5,187.05 | 3/4 | 4,800.88 | 3/4 | 4,412.97 | 3/4 | 4,025.06 | 3/4 | 3,637.14 | 3/4 | 3,249.21 | 3/4 | 2,861.24 | 3/4 | 2,473.27 | | | | |

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588
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BARGE "EMS 377"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. 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 | 2,465.18 | 0 | 2,077.21 | 0 | 1,689.24 | 0 | 1,301.27 | 0 | 913.30 | 0 | 525.71 | 0 | 137.77 | 0 | | 0 | | 0 | |
| 1/4 | 2,457.10 | 1/4 | 2,069.13 | 1/4 | 1,681.16 | 1/4 | 1,293.19 | 1/4 | 905.22 | 1/4 | 517.63 | 1/4 | 129.69 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,449.02 | 1/2 | 2,061.05 | 1/2 | 1,673.08 | 1/2 | 1,285.11 | 1/2 | 897.14 | 1/2 | 509.55 | 1/2 | 121.61 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,440.94 | 3/4 | 2,052.97 | 3/4 | 1,665.00 | 3/4 | 1,277.03 | 3/4 | 889.06 | 3/4 | 501.46 | 3/4 | 113.52 | 3/4 | | 3/4 | | 3/4 | |
| 1 | 2,432.85 | 1 | 2,044.88 | 1 | 1,656.91 | 1 | 1,268.94 | 1 | 880.97 | 1 | 493.38 | 1 | 105.44 | 1 | | 1 | | 1 | |
| 1/4 | 2,424.77 | 1/4 | 2,036.80 | 1/4 | 1,648.83 | 1/4 | 1,260.86 | 1/4 | 872.89 | 1/4 | 485.30 | 1/4 | 97.36 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,416.69 | 1/2 | 2,028.72 | 1/2 | 1,640.75 | 1/2 | 1,252.78 | 1/2 | 864.81 | 1/2 | 477.22 | 1/2 | 89.28 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,408.60 | 3/4 | 2,020.63 | 3/4 | 1,632.67 | 3/4 | 1,244.70 | 3/4 | 856.73 | 3/4 | 469.14 | 3/4 | 81.19 | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2,400.52 | 2 | 2,012.55 | 2 | 1,624.58 | 2 | 1,236.61 | 2 | 848.64 | 2 | 461.05 | 2 | 73.11 | 2 | | 2 | | 2 | |
| 1/4 | 2,392.44 | 1/4 | 2,004.47 | 1/4 | 1,616.50 | 1/4 | 1,228.53 | 1/4 | 840.56 | 1/4 | 452.97 | 1/4 | 65.32 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,384.36 | 1/2 | 1,996.39 | 1/2 | 1,608.42 | 1/2 | 1,220.45 | 1/2 | 832.48 | 1/2 | 444.89 | 1/2 | 57.53 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,376.27 | 3/4 | 1,988.30 | 3/4 | 1,600.33 | 3/4 | 1,212.36 | 3/4 | 824.40 | 3/4 | 436.81 | 3/4 | 49.73 | 3/4 | | 3/4 | | 3/4 | |
| 3 | 2,368.19 | 3 | 1,980.22 | 3 | 1,592.25 | 3 | 1,204.28 | 3 | 816.31 | 3 | 428.73 | 3 | 41.94 | 3 | | 3 | | 3 | |
| 1/4 | 2,360.11 | 1/4 | 1,972.14 | 1/4 | 1,584.17 | 1/4 | 1,196.20 | 1/4 | 808.24 | 1/4 | 420.64 | 1/4 | 36.17 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,352.03 | 1/2 | 1,964.06 | 1/2 | 1,576.09 | 1/2 | 1,188.12 | 1/2 | 800.17 | 1/2 | 412.56 | 1/2 | 30.40 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,343.94 | 3/4 | 1,955.97 | 3/4 | 1,568.00 | 3/4 | 1,180.03 | 3/4 | 792.10 | 3/4 | 404.48 | 3/4 | 24.62 | 3/4 | | 3/4 | | 3/4 | |
| 4 | 2,335.86 | 4 | 1,947.89 | 4 | 1,559.92 | 4 | 1,171.95 | 4 | 784.02 | 4 | 396.40 | 4 | 18.85 | 4 | | 4 | | 4 | |
| 1/4 | 2,327.78 | 1/4 | 1,939.81 | 1/4 | 1,551.84 | 1/4 | 1,163.87 | 1/4 | 775.95 | 1/4 | 388.31 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,319.69 | 1/2 | 1,931.73 | 1/2 | 1,543.76 | 1/2 | 1,155.79 | 1/2 | 767.88 | 1/2 | 380.23 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,311.61 | 3/4 | 1,923.64 | 3/4 | 1,535.67 | 3/4 | 1,147.70 | 3/4 | 759.81 | 3/4 | 372.15 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 2,303.53 | 5 | 1,915.56 | 5 | 1,527.59 | 5 | 1,139.62 | 5 | 751.73 | 5 | 364.07 | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 2,295.45 | 1/4 | 1,907.48 | 1/4 | 1,519.51 | 1/4 | 1,131.54 | 1/4 | 743.66 | 1/4 | 355.99 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,287.36 | 1/2 | 1,899.39 | 1/2 | 1,511.42 | 1/2 | 1,123.46 | 1/2 | 735.59 | 1/2 | 347.90 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,279.28 | 3/4 | 1,891.31 | 3/4 | 1,503.34 | 3/4 | 1,115.37 | 3/4 | 727.52 | 3/4 | 339.82 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 2,271.20 | 6 | 1,883.23 | 6 | 1,495.26 | 6 | 1,107.29 | 6 | 719.44 | 6 | 331.74 | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 2,263.12 | 1/4 | 1,875.15 | 1/4 | 1,487.18 | 1/4 | 1,099.21 | 1/4 | 711.38 | 1/4 | 323.66 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,255.03 | 1/2 | 1,867.06 | 1/2 | 1,479.09 | 1/2 | 1,091.12 | 1/2 | 703.31 | 1/2 | 315.58 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,246.95 | 3/4 | 1,858.98 | 3/4 | 1,471.01 | 3/4 | 1,083.04 | 3/4 | 695.24 | 3/4 | 307.49 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 2,238.87 | 7 | 1,850.90 | 7 | 1,462.93 | 7 | 1,074.96 | 7 | 687.17 | 7 | 299.41 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 2,230.78 | 1/4 | 1,842.82 | 1/4 | 1,454.85 | 1/4 | 1,066.88 | 1/4 | 679.11 | 1/4 | 291.33 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,222.70 | 1/2 | 1,834.73 | 1/2 | 1,446.76 | 1/2 | 1,058.79 | 1/2 | 671.04 | 1/2 | 283.25 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,214.62 | 3/4 | 1,826.65 | 3/4 | 1,438.68 | 3/4 | 1,050.71 | 3/4 | 662.97 | 3/4 | 275.17 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 2,206.54 | 8 | 1,818.57 | 8 | 1,430.60 | 8 | 1,042.63 | 8 | 654.90 | 8 | 267.08 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 2,198.45 | 1/4 | 1,810.48 | 1/4 | 1,422.51 | 1/4 | 1,034.55 | 1/4 | 646.83 | 1/4 | 259.00 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,190.37 | 1/2 | 1,802.40 | 1/2 | 1,414.43 | 1/2 | 1,026.46 | 1/2 | 638.76 | 1/2 | 250.92 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,182.29 | 3/4 | 1,794.32 | 3/4 | 1,406.35 | 3/4 | 1,018.38 | 3/4 | 630.69 | 3/4 | 242.84 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 2,174.21 | 9 | 1,786.24 | 9 | 1,398.27 | 9 | 1,010.30 | 9 | 622.61 | 9 | 234.75 | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 2,166.12 | 1/4 | 1,778.15 | 1/4 | 1,390.18 | 1/4 | 1,002.21 | 1/4 | 614.54 | 1/4 | 226.67 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,158.04 | 1/2 | 1,770.07 | 1/2 | 1,382.10 | 1/2 | 994.13 | 1/2 | 606.47 | 1/2 | 218.59 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,149.96 | 3/4 | 1,761.99 | 3/4 | 1,374.02 | 3/4 | 986.05 | 3/4 | 598.40 | 3/4 | 210.51 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 2,141.88 | 10 | 1,753.91 | 10 | 1,365.94 | 10 | 977.97 | 10 | 590.33 | 10 | 202.43 | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 2,133.79 | 1/4 | 1,745.82 | 1/4 | 1,357.85 | 1/4 | 969.88 | 1/4 | 582.25 | 1/4 | 194.34 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,125.71 | 1/2 | 1,737.74 | 1/2 | 1,349.77 | 1/2 | 961.80 | 1/2 | 574.18 | 1/2 | 186.26 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,117.63 | 3/4 | 1,729.66 | 3/4 | 1,341.69 | 3/4 | 953.72 | 3/4 | 566.11 | 3/4 | 178.18 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 2,109.54 | 11 | 1,721.57 | 11 | 1,333.61 | 11 | 945.64 | 11 | 558.04 | 11 | 170.10 | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 2,101.46 | 1/4 | 1,713.49 | 1/4 | 1,325.52 | 1/4 | 937.55 | 1/4 | 549.96 | 1/4 | 162.02 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,093.38 | 1/2 | 1,705.41 | 1/2 | 1,317.44 | 1/2 | 929.47 | 1/2 | 541.87 | 1/2 | 153.93 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,085.30 | 3/4 | 1,697.33 | 3/4 | 1,309.36 | 3/4 | 921.39 | 3/4 | 533.79 | 3/4 | 145.85 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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



BARGE "EMS 377"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 3/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| 0 | | 0 | | 0 | | 0 | 4,589.18 | 0 | 4,283.91 | 0 | 3,977.37 | 0 | 3,670.84 | 0 | 3,358.58 | 0 | 2,997.32 | 0 | 2,635.92 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,582.83 | 1/4 | 4,277.52 | 1/4 | 3,970.99 | 1/4 | 3,664.45 | 1/4 | 3,351.04 | 1/4 | 2,989.80 | 1/4 | 2,628.39 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,576.48 | 1/2 | 4,271.14 | 1/2 | 3,964.60 | 1/2 | 3,658.06 | 1/2 | 3,343.51 | 1/2 | 2,982.27 | 1/2 | 2,620.86 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,570.13 | 3/4 | 4,264.75 | 3/4 | 3,958.21 | 3/4 | 3,651.68 | 3/4 | 3,335.98 | 3/4 | 2,974.75 | 3/4 | 2,613.32 |
| 1 | | 1 | | 1 | | 1 | 4,563.78 | 1 | 4,258.37 | 1 | 3,951.83 | 1 | 3,645.29 | 1 | 3,328.45 | 1 | 2,967.23 | 1 | 2,605.79 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,557.43 | 1/4 | 4,251.98 | 1/4 | 3,945.44 | 1/4 | 3,638.90 | 1/4 | 3,320.92 | 1/4 | 2,959.70 | 1/4 | 2,598.26 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,551.08 | 1/2 | 4,245.59 | 1/2 | 3,939.06 | 1/2 | 3,632.52 | 1/2 | 3,313.39 | 1/2 | 2,952.18 | 1/2 | 2,590.73 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,544.73 | 3/4 | 4,239.21 | 3/4 | 3,932.67 | 3/4 | 3,626.13 | 3/4 | 3,305.86 | 3/4 | 2,944.65 | 3/4 | 2,583.20 |
| 2 | | 2 | | 2 | | 2 | 4,538.38 | 2 | 4,232.82 | 2 | 3,926.28 | 2 | 3,619.75 | 2 | 3,298.33 | 2 | 2,937.13 | 2 | 2,575.67 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,532.03 | 1/4 | 4,226.43 | 1/4 | 3,919.90 | 1/4 | 3,613.36 | 1/4 | 3,290.80 | 1/4 | 2,929.60 | 1/4 | 2,568.14 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,525.68 | 1/2 | 4,220.05 | 1/2 | 3,913.51 | 1/2 | 3,606.97 | 1/2 | 3,283.27 | 1/2 | 2,922.08 | 1/2 | 2,560.60 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,519.33 | 3/4 | 4,213.66 | 3/4 | 3,907.12 | 3/4 | 3,600.59 | 3/4 | 3,275.74 | 3/4 | 2,914.56 | 3/4 | 2,553.07 |
| 3 | | 3 | | 3 | | 3 | 4,512.98 | 3 | 4,207.28 | 3 | 3,900.74 | 3 | 3,594.20 | 3 | 3,268.21 | 3 | 2,907.03 | 3 | 2,545.54 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,506.63 | 1/4 | 4,200.89 | 1/4 | 3,894.35 | 1/4 | 3,587.81 | 1/4 | 3,260.68 | 1/4 | 2,899.51 | 1/4 | 2,538.01 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,500.28 | 1/2 | 4,194.50 | 1/2 | 3,887.97 | 1/2 | 3,581.43 | 1/2 | 3,253.15 | 1/2 | 2,891.98 | 1/2 | 2,530.48 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,493.93 | 3/4 | 4,188.12 | 3/4 | 3,881.58 | 3/4 | 3,575.04 | 3/4 | 3,245.61 | 3/4 | 2,884.46 | 3/4 | 2,522.95 |
| 4 | | 4 | | 4 | | 4 | 4,487.58 | 4 | 4,181.73 | 4 | 3,875.19 | 4 | 3,568.66 | 4 | 3,238.09 | 4 | 2,876.93 | 4 | 2,515.42 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,481.23 | 1/4 | 4,175.35 | 1/4 | 3,868.81 | 1/4 | 3,562.27 | 1/4 | 3,230.57 | 1/4 | 2,869.40 | 1/4 | 2,507.88 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,474.88 | 1/2 | 4,168.96 | 1/2 | 3,862.42 | 1/2 | 3,555.88 | 1/2 | 3,223.04 | 1/2 | 2,861.86 | 1/2 | 2,500.35 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,468.53 | 3/4 | 4,162.57 | 3/4 | 3,856.04 | 3/4 | 3,549.50 | 3/4 | 3,215.52 | 3/4 | 2,854.33 | 3/4 | 2,492.82 |
| 5 | | 5 | | 5 | | 5 | 4,462.18 | 5 | 4,156.19 | 5 | 3,849.65 | 5 | 3,543.11 | 5 | 3,208.00 | 5 | 2,846.80 | 5 | 2,485.29 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,455.83 | 1/4 | 4,149.80 | 1/4 | 3,843.26 | 1/4 | 3,536.73 | 1/4 | 3,200.47 | 1/4 | 2,839.27 | 1/4 | 2,477.76 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,449.48 | 1/2 | 4,143.41 | 1/2 | 3,836.88 | 1/2 | 3,530.34 | 1/2 | 3,192.95 | 1/2 | 2,831.74 | 1/2 | 2,470.23 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,443.13 | 3/4 | 4,137.03 | 3/4 | 3,830.49 | 3/4 | 3,523.95 | 3/4 | 3,185.43 | 3/4 | 2,824.21 | 3/4 | 2,462.69 |
| 6 | | 6 | 4,746.54 | 6 | 4,436.78 | 6 | 4,130.64 | 6 | 3,824.10 | 6 | 3,517.57 | 6 | 3,177.90 | 6 | 2,816.68 | 6 | 2,455.16 | | |
| 1/4 | | 1/4 | 4,740.84 | 1/4 | 4,430.43 | 1/4 | 4,124.26 | 1/4 | 3,817.72 | 1/4 | 3,511.18 | 1/4 | 3,170.38 | 1/4 | 2,809.14 | 1/4 | 2,447.63 | | |
| 1/2 | | 1/2 | 4,735.15 | 1/2 | 4,424.08 | 1/2 | 4,117.87 | 1/2 | 3,811.33 | 1/2 | 3,504.79 | 1/2 | 3,162.85 | 1/2 | 2,801.61 | 1/2 | 2,440.10 | | |
| 3/4 | | 3/4 | 4,729.45 | 3/4 | 4,417.73 | 3/4 | 4,111.48 | 3/4 | 3,804.95 | 3/4 | 3,498.41 | 3/4 | 3,155.33 | 3/4 | 2,794.08 | 3/4 | 2,432.57 | | |
| 7 | | 7 | 4,722.43 | 7 | 4,411.38 | 7 | 4,105.10 | 7 | 3,798.56 | 7 | 3,492.02 | 7 | 3,147.81 | 7 | 2,786.55 | 7 | 2,425.04 | | |
| 1/4 | | 1/4 | 4,715.41 | 1/4 | 4,405.03 | 1/4 | 4,098.71 | 1/4 | 3,792.17 | 1/4 | 3,485.64 | 1/4 | 3,140.28 | 1/4 | 2,779.02 | 1/4 | 2,417.51 | | |
| 1/2 | | 1/2 | 4,708.38 | 1/2 | 4,398.68 | 1/2 | 4,092.32 | 1/2 | 3,785.79 | 1/2 | 3,479.25 | 1/2 | 3,132.76 | 1/2 | 2,771.49 | 1/2 | 2,409.97 | | |
| 3/4 | | 3/4 | 4,701.36 | 3/4 | 4,392.33 | 3/4 | 4,085.94 | 3/4 | 3,779.40 | 3/4 | 3,472.86 | 3/4 | 3,125.23 | 3/4 | 2,763.95 | 3/4 | 2,402.44 | | |
| 8 | | 8 | 4,693.95 | 8 | 4,385.98 | 8 | 4,079.55 | 8 | 3,773.01 | 8 | 3,466.48 | 8 | 3,117.71 | 8 | 2,756.42 | 8 | 2,394.91 | | |
| 1/4 | | 1/4 | 4,686.54 | 1/4 | 4,379.63 | 1/4 | 4,073.17 | 1/4 | 3,766.63 | 1/4 | 3,460.09 | 1/4 | 3,110.18 | 1/4 | 2,748.89 | 1/4 | 2,387.38 | | |
| 1/2 | | 1/2 | 4,679.13 | 1/2 | 4,373.28 | 1/2 | 4,066.78 | 1/2 | 3,760.24 | 1/2 | 3,453.70 | 1/2 | 3,102.66 | 1/2 | 2,741.36 | 1/2 | 2,379.85 | | |
| 3/4 | | 3/4 | 4,671.73 | 3/4 | 4,366.93 | 3/4 | 4,060.39 | 3/4 | 3,753.86 | 3/4 | 3,447.32 | 3/4 | 3,095.14 | 3/4 | 2,733.83 | 3/4 | 2,372.32 | | |
| 9 | | 9 | 4,665.38 | 9 | 4,360.55 | 9 | 4,054.01 | 9 | 3,747.47 | 9 | 3,440.93 | 9 | 3,087.61 | 9 | 2,726.30 | 9 | 2,364.79 | | |
| 1/4 | | 1/4 | 4,659.03 | 1/4 | 4,354.16 | 1/4 | 4,047.62 | 1/4 | 3,741.08 | 1/4 | 3,434.55 | 1/4 | 3,080.09 | 1/4 | 2,718.77 | 1/4 | 2,357.25 | | |
| 1/2 | | 1/2 | 4,652.68 | 1/2 | 4,347.77 | 1/2 | 4,041.24 | 1/2 | 3,734.70 | 1/2 | 3,428.16 | 1/2 | 3,072.56 | 1/2 | 2,711.23 | 1/2 | 2,349.72 | | |
| 3/4 | | 3/4 | 4,646.33 | 3/4 | 4,341.39 | 3/4 | 4,034.85 | 3/4 | 3,728.31 | 3/4 | 3,421.77 | 3/4 | 3,065.04 | 3/4 | 2,703.70 | 3/4 | 2,342.19 | | |
| 10 | | 10 | 4,639.98 | 10 | 4,335.00 | 10 | 4,028.46 | 10 | 3,721.93 | 10 | 3,415.39 | 10 | 3,057.52 | 10 | 2,696.17 | 10 | 2,334.66 | | |
| 1/4 | | 1/4 | 4,633.63 | 1/4 | 4,328.61 | 1/4 | 4,022.08 | 1/4 | 3,715.54 | 1/4 | 3,409.00 | 1/4 | 3,049.99 | 1/4 | 2,688.64 | 1/4 | 2,327.13 | | |
| 1/2 | | 1/2 | 4,627.28 | 1/2 | 4,322.23 | 1/2 | 4,015.69 | 1/2 | 3,709.15 | 1/2 | 3,402.62 | 1/2 | 3,042.47 | 1/2 | 2,681.11 | 1/2 | 2,319.60 | | |
| 3/4 | | 3/4 | 4,620.93 | 3/4 | 4,315.84 | 3/4 | 4,009.30 | 3/4 | 3,702.77 | 3/4 | 3,396.23 | 3/4 | 3,034.94 | 3/4 | 2,673.58 | 3/4 | 2,312.06 | | |
| 11 | | 11 | 4,614.58 | 11 | 4,309.46 | 11 | 4,002.92 | 11 | 3,696.38 | 11 | 3,388.70 | 11 | 3,027.42 | 11 | 2,666.05 | 11 | 2,304.53 | | |
| 1/4 | | 1/4 | 4,608.23 | 1/4 | 4,303.07 | 1/4 | 3,996.53 | 1/4 | 3,689.99 | 1/4 | 3,381.17 | 1/4 | 3,019.89 | 1/4 | 2,658.51 | 1/4 | 2,297.00 | | |
| 1/2 | | 1/2 | 4,601.88 | 1/2 | 4,296.68 | 1/2 | 3,990.15 | 1/2 | 3,683.61 | 1/2 | 3,373.64 | 1/2 | 3,012.37 | 1/2 | 2,650.98 | 1/2 | 2,289.47 | | |
| 3/4 | | 3/4 | 4,595.53 | 3/4 | 4,290.30 | 3/4 | 3,983.76 | 3/4 | 3,677.22 | 3/4 | 3,366.11 | 3/4 | 3,004.85 | 3/4 | 2,643.45 | 3/4 | 2,281.94 | | |

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 377"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-03 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 | 2,274.41 | 0 | 1,913.43 | 0 | 1,552.57 | 0 | 1,191.21 | 0 | 830.36 | 0 | 482.45 | 0 | 120.89 | 0 | | 0 | | 0 | |
| 1/4 | 2,266.88 | 1/4 | 1,905.92 | 1/4 | 1,545.04 | 1/4 | 1,183.68 | 1/4 | 823.12 | 1/4 | 474.92 | 1/4 | 113.36 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,259.34 | 1/2 | 1,898.41 | 1/2 | 1,537.51 | 1/2 | 1,176.16 | 1/2 | 815.88 | 1/2 | 467.39 | 1/2 | 105.83 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,251.81 | 3/4 | 1,890.90 | 3/4 | 1,529.98 | 3/4 | 1,168.63 | 3/4 | 808.64 | 3/4 | 459.85 | 3/4 | 98.30 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 1 | 2,244.28 | 1 | 1,883.39 | 1 | 1,522.45 | 1 | 1,161.10 | 1 | 801.40 | 1 | 452.32 | 1 | 90.77 | 1 | 1 | 1 | | 1 | |
| 1/4 | 2,236.75 | 1/4 | 1,875.88 | 1/4 | 1,514.92 | 1/4 | 1,153.57 | 1/4 | 794.16 | 1/4 | 444.79 | 1/4 | 83.23 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,229.22 | 1/2 | 1,868.37 | 1/2 | 1,507.40 | 1/2 | 1,146.04 | 1/2 | 786.91 | 1/2 | 437.26 | 1/2 | 75.70 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,221.69 | 3/4 | 1,860.87 | 3/4 | 1,499.87 | 3/4 | 1,138.51 | 3/4 | 779.67 | 3/4 | 429.72 | 3/4 | 68.17 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 2 | 2,214.16 | 2 | 1,853.36 | 2 | 1,492.34 | 2 | 1,130.99 | 2 | 772.42 | 2 | 422.19 | 2 | 60.90 | 2 | 2 | 2 | | 2 | |
| 1/4 | 2,206.62 | 1/4 | 1,845.85 | 1/4 | 1,484.81 | 1/4 | 1,123.46 | 1/4 | 765.17 | 1/4 | 414.66 | 1/4 | 53.64 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,199.09 | 1/2 | 1,838.34 | 1/2 | 1,477.28 | 1/2 | 1,115.93 | 1/2 | 757.92 | 1/2 | 407.13 | 1/2 | 46.38 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,191.56 | 3/4 | 1,830.83 | 3/4 | 1,469.75 | 3/4 | 1,108.40 | 3/4 | 750.67 | 3/4 | 399.59 | 3/4 | 39.11 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 3 | 2,184.03 | 3 | 1,823.32 | 3 | 1,462.23 | 3 | 1,100.87 | 3 | 743.43 | 3 | 392.06 | 3 | 33.74 | 3 | 3 | 3 | | 3 | |
| 1/4 | 2,176.50 | 1/4 | 1,815.82 | 1/4 | 1,454.70 | 1/4 | 1,093.34 | 1/4 | 736.18 | 1/4 | 384.53 | 1/4 | 28.36 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,168.97 | 1/2 | 1,808.31 | 1/2 | 1,447.17 | 1/2 | 1,085.82 | 1/2 | 728.94 | 1/2 | 377.00 | 1/2 | 22.98 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,161.43 | 3/4 | 1,800.80 | 3/4 | 1,439.64 | 3/4 | 1,078.29 | 3/4 | 721.70 | 3/4 | 369.46 | 3/4 | 17.60 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 4 | 2,153.90 | 4 | 1,793.29 | 4 | 1,432.11 | 4 | 1,070.76 | 4 | 714.46 | 4 | 361.93 | 4 | | 4 | 4 | 4 | | 4 | |
| 1/4 | 2,146.37 | 1/4 | 1,785.78 | 1/4 | 1,424.59 | 1/4 | 1,063.23 | 1/4 | 707.22 | 1/4 | 354.40 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,138.84 | 1/2 | 1,778.27 | 1/2 | 1,417.06 | 1/2 | 1,055.70 | 1/2 | 699.98 | 1/2 | 346.87 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,131.31 | 3/4 | 1,770.76 | 3/4 | 1,409.53 | 3/4 | 1,048.18 | 3/4 | 692.74 | 3/4 | 339.33 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 5 | 2,123.78 | 5 | 1,763.26 | 5 | 1,402.00 | 5 | 1,040.65 | 5 | 685.50 | 5 | 331.80 | 5 | | 5 | 5 | 5 | | 5 | |
| 1/4 | 2,116.25 | 1/4 | 1,755.75 | 1/4 | 1,394.47 | 1/4 | 1,033.12 | 1/4 | 678.25 | 1/4 | 324.27 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,108.71 | 1/2 | 1,748.24 | 1/2 | 1,386.94 | 1/2 | 1,025.59 | 1/2 | 671.01 | 1/2 | 316.74 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,101.18 | 3/4 | 1,740.73 | 3/4 | 1,379.42 | 3/4 | 1,018.06 | 3/4 | 663.77 | 3/4 | 309.20 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 6 | 2,093.66 | 6 | 1,733.21 | 6 | 1,371.89 | 6 | 1,010.54 | 6 | 656.54 | 6 | 301.67 | 6 | | 6 | 6 | 6 | | 6 | |
| 1/4 | 2,086.14 | 1/4 | 1,725.69 | 1/4 | 1,364.36 | 1/4 | 1,003.02 | 1/4 | 649.30 | 1/4 | 294.14 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,078.62 | 1/2 | 1,718.18 | 1/2 | 1,356.83 | 1/2 | 995.51 | 1/2 | 642.06 | 1/2 | 286.61 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,071.10 | 3/4 | 1,710.66 | 3/4 | 1,349.30 | 3/4 | 987.99 | 3/4 | 634.82 | 3/4 | 279.08 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 7 | 2,063.60 | 7 | 1,703.13 | 7 | 1,341.78 | 7 | 980.47 | 7 | 627.59 | 7 | 271.54 | 7 | | 7 | 7 | 7 | | 7 | |
| 1/4 | 2,056.09 | 1/4 | 1,695.60 | 1/4 | 1,334.25 | 1/4 | 972.95 | 1/4 | 620.35 | 1/4 | 264.01 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,048.58 | 1/2 | 1,688.07 | 1/2 | 1,326.72 | 1/2 | 965.43 | 1/2 | 613.11 | 1/2 | 256.48 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,041.07 | 3/4 | 1,680.54 | 3/4 | 1,319.19 | 3/4 | 957.91 | 3/4 | 605.88 | 3/4 | 248.95 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 8 | 2,033.56 | 8 | 1,673.02 | 8 | 1,311.66 | 8 | 950.39 | 8 | 598.64 | 8 | 241.41 | 8 | | 8 | 8 | 8 | | 8 | |
| 1/4 | 2,026.05 | 1/4 | 1,665.49 | 1/4 | 1,304.13 | 1/4 | 942.87 | 1/4 | 591.40 | 1/4 | 233.88 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,018.54 | 1/2 | 1,657.96 | 1/2 | 1,296.61 | 1/2 | 935.35 | 1/2 | 584.15 | 1/2 | 226.35 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,011.04 | 3/4 | 1,650.43 | 3/4 | 1,289.08 | 3/4 | 927.83 | 3/4 | 576.91 | 3/4 | 218.82 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 9 | 2,003.53 | 9 | 1,642.90 | 9 | 1,281.55 | 9 | 920.31 | 9 | 569.67 | 9 | 211.28 | 9 | | 9 | 9 | 9 | | 9 | |
| 1/4 | 1,996.02 | 1/4 | 1,635.38 | 1/4 | 1,274.02 | 1/4 | 912.79 | 1/4 | 562.43 | 1/4 | 203.75 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,988.51 | 1/2 | 1,627.85 | 1/2 | 1,266.49 | 1/2 | 905.27 | 1/2 | 555.19 | 1/2 | 196.22 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,981.00 | 3/4 | 1,620.32 | 3/4 | 1,258.97 | 3/4 | 897.76 | 3/4 | 547.95 | 3/4 | 188.69 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 10 | 1,973.49 | 10 | 1,612.79 | 10 | 1,251.44 | 10 | 890.24 | 10 | 540.71 | 10 | 181.15 | 10 | | 10 | 10 | 10 | | 10 | |
| 1/4 | 1,965.99 | 1/4 | 1,605.26 | 1/4 | 1,243.91 | 1/4 | 882.72 | 1/4 | 533.47 | 1/4 | 173.62 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,958.48 | 1/2 | 1,597.73 | 1/2 | 1,236.38 | 1/2 | 875.20 | 1/2 | 526.22 | 1/2 | 166.09 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,950.97 | 3/4 | 1,590.21 | 3/4 | 1,228.85 | 3/4 | 867.68 | 3/4 | 518.98 | 3/4 | 158.56 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 11 | 1,943.46 | 11 | 1,582.68 | 11 | 1,221.32 | 11 | 860.16 | 11 | 511.73 | 11 | 151.02 | 11 | | 11 | 11 | 11 | | 11 | |
| 1/4 | 1,935.95 | 1/4 | 1,575.15 | 1/4 | 1,213.80 | 1/4 | 852.64 | 1/4 | 504.48 | 1/4 | 143.49 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,928.44 | 1/2 | 1,567.62 | 1/2 | 1,206.27 | 1/2 | 845.12 | 1/2 | 497.23 | 1/2 | 135.96 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,920.93 | 3/4 | 1,560.09 | 3/4 | 1,198.74 | 3/4 | 837.60 | 3/4 | 489.98 | 3/4 | 128.43 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

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& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 377"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|--|-------|--|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | |
| 0 | | 0 | | 0 | | 0 | 4,592.32 | 0 | 4,286.99 | 0 | 3,980.35 | 0 | 3,673.71 | 0 | 3,362.53 | 0 | 3,001.70 | 0 | 2,640.74 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,585.97 | 1/4 | 4,280.60 | 1/4 | 3,973.96 | 1/4 | 3,667.32 | 1/4 | 3,355.01 | 1/4 | 2,994.19 | 1/4 | 2,633.21 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,579.62 | 1/2 | 4,274.22 | 1/2 | 3,967.57 | 1/2 | 3,660.93 | 1/2 | 3,347.49 | 1/2 | 2,986.67 | 1/2 | 2,625.69 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,573.27 | 3/4 | 4,267.83 | 3/4 | 3,961.18 | 3/4 | 3,654.54 | 3/4 | 3,339.97 | 3/4 | 2,979.16 | 3/4 | 2,618.17 |
| 1 | | 1 | | 1 | | 1 | 4,566.91 | 1 | 4,261.44 | 1 | 3,954.80 | 1 | 3,648.15 | 1 | 3,332.44 | 1 | 2,971.64 | 1 | 2,610.64 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,560.56 | 1/4 | 4,255.05 | 1/4 | 3,948.41 | 1/4 | 3,641.76 | 1/4 | 3,324.92 | 1/4 | 2,964.13 | 1/4 | 2,603.12 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,554.21 | 1/2 | 4,248.66 | 1/2 | 3,942.02 | 1/2 | 3,635.38 | 1/2 | 3,317.40 | 1/2 | 2,956.61 | 1/2 | 2,595.60 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,547.86 | 3/4 | 4,242.27 | 3/4 | 3,935.63 | 3/4 | 3,628.99 | 3/4 | 3,309.88 | 3/4 | 2,949.10 | 3/4 | 2,588.08 |
| 2 | | 2 | | 2 | | 2 | 4,541.51 | 2 | 4,235.89 | 2 | 3,929.24 | 2 | 3,622.60 | 2 | 3,302.36 | 2 | 2,941.58 | 2 | 2,580.55 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,535.16 | 1/4 | 4,229.50 | 1/4 | 3,922.85 | 1/4 | 3,616.21 | 1/4 | 3,294.84 | 1/4 | 2,934.06 | 1/4 | 2,573.03 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,528.80 | 1/2 | 4,223.11 | 1/2 | 3,916.47 | 1/2 | 3,609.82 | 1/2 | 3,287.31 | 1/2 | 2,926.55 | 1/2 | 2,565.51 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,522.45 | 3/4 | 4,216.72 | 3/4 | 3,910.08 | 3/4 | 3,603.43 | 3/4 | 3,279.79 | 3/4 | 2,919.03 | 3/4 | 2,557.99 |
| 3 | | 3 | | 3 | | 3 | 4,516.10 | 3 | 4,210.33 | 3 | 3,903.69 | 3 | 3,597.05 | 3 | 3,272.27 | 3 | 2,911.52 | 3 | 2,550.46 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,509.75 | 1/4 | 4,203.94 | 1/4 | 3,897.30 | 1/4 | 3,590.66 | 1/4 | 3,264.75 | 1/4 | 2,904.00 | 1/4 | 2,542.95 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,503.40 | 1/2 | 4,197.56 | 1/2 | 3,890.91 | 1/2 | 3,584.27 | 1/2 | 3,257.23 | 1/2 | 2,896.49 | 1/2 | 2,535.44 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,497.04 | 3/4 | 4,191.17 | 3/4 | 3,884.52 | 3/4 | 3,577.88 | 3/4 | 3,249.71 | 3/4 | 2,888.97 | 3/4 | 2,527.92 |
| 4 | | 4 | | 4 | | 4 | 4,490.69 | 4 | 4,184.78 | 4 | 3,878.14 | 4 | 3,571.49 | 4 | 3,242.18 | 4 | 2,881.46 | 4 | 2,520.41 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,484.34 | 1/4 | 4,178.39 | 1/4 | 3,871.75 | 1/4 | 3,565.10 | 1/4 | 3,234.67 | 1/4 | 2,873.94 | 1/4 | 2,512.90 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,477.99 | 1/2 | 4,172.00 | 1/2 | 3,865.36 | 1/2 | 3,558.72 | 1/2 | 3,227.15 | 1/2 | 2,866.41 | 1/2 | 2,505.38 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,471.64 | 3/4 | 4,165.61 | 3/4 | 3,858.97 | 3/4 | 3,552.33 | 3/4 | 3,219.64 | 3/4 | 2,858.89 | 3/4 | 2,497.87 |
| 5 | | 5 | | 5 | | 5 | 4,465.28 | 5 | 4,159.23 | 5 | 3,852.58 | 5 | 3,545.94 | 5 | 3,212.12 | 5 | 2,851.37 | 5 | 2,490.36 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,458.93 | 1/4 | 4,152.84 | 1/4 | 3,846.19 | 1/4 | 3,539.55 | 1/4 | 3,204.61 | 1/4 | 2,843.85 | 1/4 | 2,482.84 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,452.58 | 1/2 | 4,146.45 | 1/2 | 3,839.81 | 1/2 | 3,533.16 | 1/2 | 3,197.10 | 1/2 | 2,836.32 | 1/2 | 2,475.33 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,446.23 | 3/4 | 4,140.06 | 3/4 | 3,833.42 | 3/4 | 3,526.77 | 3/4 | 3,189.58 | 3/4 | 2,828.80 | 3/4 | 2,467.82 |
| 6 | | 6 | | 6 | | 6 | 4,439.88 | 6 | 4,133.67 | 6 | 3,827.03 | 6 | 3,520.39 | 6 | 3,182.07 | 6 | 2,821.28 | 6 | 2,460.30 |
| 1/4 | | 1/4 | | 1/4 | 4,743.38 | 1/4 | 4,433.53 | 1/4 | 4,127.28 | 1/4 | 3,820.64 | 1/4 | 3,514.00 | 1/4 | 3,174.55 | 1/4 | 2,813.76 | 1/4 | 2,452.79 |
| 1/2 | | 1/2 | | 1/2 | 4,737.68 | 1/2 | 4,427.17 | 1/2 | 4,120.89 | 1/2 | 3,814.25 | 1/2 | 3,507.61 | 1/2 | 3,167.04 | 1/2 | 2,806.23 | 1/2 | 2,445.28 |
| 3/4 | | 3/4 | | 3/4 | 4,731.99 | 3/4 | 4,420.82 | 3/4 | 4,114.51 | 3/4 | 3,807.86 | 3/4 | 3,501.22 | 3/4 | 3,159.52 | 3/4 | 2,798.71 | 3/4 | 2,437.76 |
| 7 | | 7 | | 7 | 4,726.29 | 7 | 4,414.47 | 7 | 4,108.12 | 7 | 3,801.47 | 7 | 3,494.83 | 7 | 3,152.01 | 7 | 2,791.19 | 7 | 2,430.25 |
| 1/4 | | 1/4 | | 1/4 | 4,719.26 | 1/4 | 4,408.12 | 1/4 | 4,101.73 | 1/4 | 3,795.09 | 1/4 | 3,488.44 | 1/4 | 3,144.49 | 1/4 | 2,783.66 | 1/4 | 2,422.74 |
| 1/2 | | 1/2 | | 1/2 | 4,712.24 | 1/2 | 4,401.77 | 1/2 | 4,095.34 | 1/2 | 3,788.70 | 1/2 | 3,482.05 | 1/2 | 3,136.98 | 1/2 | 2,776.14 | 1/2 | 2,415.22 |
| 3/4 | | 3/4 | | 3/4 | 4,705.21 | 3/4 | 4,395.41 | 3/4 | 4,088.95 | 3/4 | 3,782.31 | 3/4 | 3,475.67 | 3/4 | 3,129.46 | 3/4 | 2,768.62 | 3/4 | 2,407.71 |
| 8 | | 8 | | 8 | 4,698.19 | 8 | 4,389.06 | 8 | 4,082.56 | 8 | 3,775.92 | 8 | 3,469.28 | 8 | 3,121.94 | 8 | 2,761.10 | 8 | 2,400.20 |
| 1/4 | | 1/4 | | 1/4 | 4,690.78 | 1/4 | 4,382.71 | 1/4 | 4,076.18 | 1/4 | 3,769.53 | 1/4 | 3,462.89 | 1/4 | 3,114.43 | 1/4 | 2,753.57 | 1/4 | 2,392.68 |
| 1/2 | | 1/2 | | 1/2 | 4,683.37 | 1/2 | 4,376.36 | 1/2 | 4,069.79 | 1/2 | 3,763.14 | 1/2 | 3,456.50 | 1/2 | 3,106.91 | 1/2 | 2,746.05 | 1/2 | 2,385.17 |
| 3/4 | | 3/4 | | 3/4 | 4,675.96 | 3/4 | 4,370.01 | 3/4 | 4,063.40 | 3/4 | 3,756.76 | 3/4 | 3,450.11 | 3/4 | 3,099.40 | 3/4 | 2,738.53 | 3/4 | 2,377.66 |
| 9 | | 9 | | 9 | 4,668.55 | 9 | 4,363.65 | 9 | 4,057.01 | 9 | 3,750.37 | 9 | 3,443.72 | 9 | 3,091.88 | 9 | 2,731.01 | 9 | 2,370.14 |
| 1/4 | | 1/4 | | 1/4 | 4,662.19 | 1/4 | 4,357.27 | 1/4 | 4,050.62 | 1/4 | 3,743.98 | 1/4 | 3,437.34 | 1/4 | 3,084.37 | 1/4 | 2,723.48 | 1/4 | 2,362.63 |
| 1/2 | | 1/2 | | 1/2 | 4,655.84 | 1/2 | 4,350.88 | 1/2 | 4,044.23 | 1/2 | 3,737.59 | 1/2 | 3,430.95 | 1/2 | 3,076.85 | 1/2 | 2,715.96 | 1/2 | 2,355.12 |
| 3/4 | | 3/4 | | 3/4 | 4,649.49 | 3/4 | 4,344.49 | 3/4 | 4,037.85 | 3/4 | 3,731.20 | 3/4 | 3,424.56 | 3/4 | 3,069.34 | 3/4 | 2,708.44 | 3/4 | 2,347.60 |
| 10 | | 10 | | 10 | 4,643.14 | 10 | 4,338.10 | 10 | 4,031.46 | 10 | 3,724.81 | 10 | 3,418.17 | 10 | 3,061.82 | 10 | 2,700.92 | 10 | 2,340.09 |
| 1/4 | | 1/4 | | 1/4 | 4,636.79 | 1/4 | 4,331.71 | 1/4 | 4,025.07 | 1/4 | 3,718.43 | 1/4 | 3,411.78 | 1/4 | 3,054.31 | 1/4 | 2,693.39 | 1/4 | 2,332.58 |
| 1/2 | | 1/2 | | 1/2 | 4,630.43 | 1/2 | 4,325.32 | 1/2 | 4,018.68 | 1/2 | 3,712.04 | 1/2 | 3,405.39 | 1/2 | 3,046.79 | 1/2 | 2,685.87 | 1/2 | 2,325.06 |
| 3/4 | | 3/4 | | 3/4 | 4,624.08 | 3/4 | 4,318.94 | 3/4 | 4,012.29 | 3/4 | 3,705.65 | 3/4 | 3,399.01 | 3/4 | 3,039.28 | 3/4 | 2,678.35 | 3/4 | 2,317.55 |
| 11 | | 11 | | 11 | 4,617.73 | 11 | 4,312.55 | 11 | 4,005.90 | 11 | 3,699.26 | 11 | 3,392.62 | 11 | 3,031.76 | 11 | 2,670.83 | 11 | 2,310.04 |
| 1/4 | | 1/4 | | 1/4 | 4,611.38 | 1/4 | 4,306.16 | 1/4 | 3,999.52 | 1/4 | 3,692.87 | 1/4 | 3,385.10 | 1/4 | 3,024.25 | 1/4 | 2,663.30 | 1/4 | 2,302.51 |
| 1/2 | | 1/2 | | 1/2 | 4,605.03 | 1/2 | 4,299.77 | 1/2 | 3,993.13 | 1/2 | 3,686.48 | 1/2 | 3,377.57 | 1/2 | 3,016.73 | 1/2 | 2,655.78 | 1/2 | 2,294.99 |
| 3/4 | | 3/4 | | 3/4 | 4,598.67 | 3/4 | 4,293.38 | 3/4 | 3,986.74 | 3/4 | 3,680.10 | 3/4 | 3,370.05 | 3/4 | 3,009.22 | 3/4 | 2,648.26 | 3/4 | 2,287.46 |

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 WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "EMS 377"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|-----|--------|--|--------|--|
| 0 | 2,279.94 | 0 | 1,920.48 | 0 | 1,561.41 | 0 | 1,200.41 | 0 | 839.41 | 0 | 489.46 | 0 | 128.33 | 0 | | 0 | | 0 | |
| 1/4 | 2,272.41 | 1/4 | 1,913.03 | 1/4 | 1,553.89 | 1/4 | 1,192.89 | 1/4 | 832.11 | 1/4 | 481.93 | 1/4 | 120.81 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,264.89 | 1/2 | 1,905.59 | 1/2 | 1,546.37 | 1/2 | 1,185.37 | 1/2 | 824.82 | 1/2 | 474.41 | 1/2 | 113.29 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,257.37 | 3/4 | 1,898.14 | 3/4 | 1,538.85 | 3/4 | 1,177.85 | 3/4 | 817.52 | 3/4 | 466.89 | 3/4 | 105.76 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 1 | 2,249.84 | 1 | 1,890.69 | 1 | 1,531.33 | 1 | 1,170.33 | 1 | 810.22 | 1 | 459.36 | 1 | 98.24 | 1 | 1 | 1 | | 1 | |
| 1/4 | 2,242.32 | 1/4 | 1,883.24 | 1/4 | 1,523.80 | 1/4 | 1,162.81 | 1/4 | 802.92 | 1/4 | 451.84 | 1/4 | 90.72 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,234.79 | 1/2 | 1,875.80 | 1/2 | 1,516.28 | 1/2 | 1,155.29 | 1/2 | 795.62 | 1/2 | 444.32 | 1/2 | 83.19 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,227.27 | 3/4 | 1,868.35 | 3/4 | 1,508.76 | 3/4 | 1,147.76 | 3/4 | 788.32 | 3/4 | 436.79 | 3/4 | 75.67 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 2 | 2,219.75 | 2 | 1,860.90 | 2 | 1,501.24 | 2 | 1,140.24 | 2 | 781.02 | 2 | 429.27 | 2 | 68.15 | 2 | 2 | 2 | | 2 | |
| 1/4 | 2,212.22 | 1/4 | 1,853.46 | 1/4 | 1,493.72 | 1/4 | 1,132.72 | 1/4 | 773.73 | 1/4 | 421.75 | 1/4 | 60.89 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,204.70 | 1/2 | 1,846.01 | 1/2 | 1,486.20 | 1/2 | 1,125.20 | 1/2 | 766.43 | 1/2 | 414.22 | 1/2 | 53.64 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,197.17 | 3/4 | 1,838.56 | 3/4 | 1,478.68 | 3/4 | 1,117.68 | 3/4 | 759.13 | 3/4 | 406.70 | 3/4 | 46.38 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 3 | 2,189.65 | 3 | 1,831.12 | 3 | 1,471.16 | 3 | 1,110.16 | 3 | 751.83 | 3 | 399.18 | 3 | 39.13 | 3 | 3 | 3 | | 3 | |
| 1/4 | 2,182.13 | 1/4 | 1,823.67 | 1/4 | 1,463.64 | 1/4 | 1,102.64 | 1/4 | 744.54 | 1/4 | 391.65 | 1/4 | 33.75 | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,174.60 | 1/2 | 1,816.22 | 1/2 | 1,456.12 | 1/2 | 1,095.12 | 1/2 | 737.25 | 1/2 | 384.13 | 1/2 | 28.37 | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,167.08 | 3/4 | 1,808.78 | 3/4 | 1,448.60 | 3/4 | 1,087.60 | 3/4 | 729.97 | 3/4 | 376.61 | 3/4 | 22.99 | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 4 | 2,159.55 | 4 | 1,801.33 | 4 | 1,441.08 | 4 | 1,080.08 | 4 | 722.68 | 4 | 369.08 | 4 | 17.60 | 4 | 4 | 4 | | 4 | |
| 1/4 | 2,152.03 | 1/4 | 1,793.88 | 1/4 | 1,433.56 | 1/4 | 1,072.56 | 1/4 | 715.39 | 1/4 | 361.56 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,144.51 | 1/2 | 1,786.43 | 1/2 | 1,426.03 | 1/2 | 1,065.04 | 1/2 | 708.10 | 1/2 | 354.03 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,136.98 | 3/4 | 1,778.99 | 3/4 | 1,418.51 | 3/4 | 1,057.52 | 3/4 | 700.81 | 3/4 | 346.51 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 5 | 2,129.46 | 5 | 1,771.54 | 5 | 1,410.99 | 5 | 1,049.99 | 5 | 693.53 | 5 | 338.99 | 5 | | 5 | 5 | 5 | | 5 | |
| 1/4 | 2,121.93 | 1/4 | 1,764.09 | 1/4 | 1,403.47 | 1/4 | 1,042.47 | 1/4 | 686.24 | 1/4 | 331.46 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,114.41 | 1/2 | 1,756.65 | 1/2 | 1,395.95 | 1/2 | 1,034.95 | 1/2 | 678.95 | 1/2 | 323.94 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,106.88 | 3/4 | 1,749.20 | 3/4 | 1,388.43 | 3/4 | 1,027.43 | 3/4 | 671.66 | 3/4 | 316.42 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 6 | 2,099.36 | 6 | 1,741.75 | 6 | 1,380.91 | 6 | 1,019.91 | 6 | 664.37 | 6 | 308.89 | 6 | | 6 | 6 | 6 | | 6 | |
| 1/4 | 2,091.87 | 1/4 | 1,734.27 | 1/4 | 1,373.39 | 1/4 | 1,012.39 | 1/4 | 657.09 | 1/4 | 301.37 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,084.39 | 1/2 | 1,726.79 | 1/2 | 1,365.87 | 1/2 | 1,004.87 | 1/2 | 649.81 | 1/2 | 293.85 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,076.90 | 3/4 | 1,719.31 | 3/4 | 1,358.35 | 3/4 | 997.35 | 3/4 | 642.52 | 3/4 | 286.32 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 7 | 2,069.42 | 7 | 1,711.82 | 7 | 1,350.83 | 7 | 989.83 | 7 | 635.24 | 7 | 278.80 | 7 | | 7 | 7 | 7 | | 7 | |
| 1/4 | 2,061.97 | 1/4 | 1,704.30 | 1/4 | 1,343.31 | 1/4 | 982.31 | 1/4 | 627.95 | 1/4 | 271.28 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,054.52 | 1/2 | 1,696.78 | 1/2 | 1,335.78 | 1/2 | 974.79 | 1/2 | 620.67 | 1/2 | 263.75 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,047.08 | 3/4 | 1,689.26 | 3/4 | 1,328.26 | 3/4 | 967.27 | 3/4 | 613.39 | 3/4 | 256.23 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 8 | 2,039.63 | 8 | 1,681.74 | 8 | 1,320.74 | 8 | 959.74 | 8 | 606.10 | 8 | 248.71 | 8 | | 8 | 8 | 8 | | 8 | |
| 1/4 | 2,032.18 | 1/4 | 1,674.22 | 1/4 | 1,313.22 | 1/4 | 952.22 | 1/4 | 598.82 | 1/4 | 241.18 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 2,024.74 | 1/2 | 1,666.70 | 1/2 | 1,305.70 | 1/2 | 944.70 | 1/2 | 591.53 | 1/2 | 233.66 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 2,017.29 | 3/4 | 1,659.18 | 3/4 | 1,298.18 | 3/4 | 937.18 | 3/4 | 584.24 | 3/4 | 226.14 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 9 | 2,009.84 | 9 | 1,651.66 | 9 | 1,290.66 | 9 | 929.66 | 9 | 576.95 | 9 | 218.61 | 9 | | 9 | 9 | 9 | | 9 | |
| 1/4 | 2,002.39 | 1/4 | 1,644.14 | 1/4 | 1,283.14 | 1/4 | 922.14 | 1/4 | 569.66 | 1/4 | 211.09 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,994.95 | 1/2 | 1,636.62 | 1/2 | 1,275.62 | 1/2 | 914.62 | 1/2 | 562.38 | 1/2 | 203.57 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,987.50 | 3/4 | 1,629.10 | 3/4 | 1,268.10 | 3/4 | 907.10 | 3/4 | 555.09 | 3/4 | 196.04 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 10 | 1,980.05 | 10 | 1,621.58 | 10 | 1,260.58 | 10 | 899.58 | 10 | 547.80 | 10 | 188.52 | 10 | | 10 | 10 | 10 | | 10 | |
| 1/4 | 1,972.61 | 1/4 | 1,614.05 | 1/4 | 1,253.06 | 1/4 | 892.06 | 1/4 | 540.51 | 1/4 | 181.00 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,965.16 | 1/2 | 1,606.53 | 1/2 | 1,245.54 | 1/2 | 884.54 | 1/2 | 533.22 | 1/2 | 173.47 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,957.71 | 3/4 | 1,599.01 | 3/4 | 1,238.01 | 3/4 | 877.02 | 3/4 | 525.94 | 3/4 | 165.95 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |
| 11 | 1,950.27 | 11 | 1,591.49 | 11 | 1,230.49 | 11 | 869.50 | 11 | 518.65 | 11 | 158.43 | 11 | | 11 | 11 | 11 | | 11 | |
| 1/4 | 1,942.82 | 1/4 | 1,583.97 | 1/4 | 1,222.97 | 1/4 | 861.97 | 1/4 | 511.35 | 1/4 | 150.90 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | |
| 1/2 | 1,935.37 | 1/2 | 1,576.45 | 1/2 | 1,215.45 | 1/2 | 854.45 | 1/2 | 504.05 | 1/2 | 143.38 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | |
| 3/4 | 1,927.93 | 3/4 | 1,568.93 | 3/4 | 1,207.93 | 3/4 | 846.93 | 3/4 | 496.75 | 3/4 | 135.86 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/09/2012 CL - SW
CALCULATED: 07/09/2012 CL
PRINTED: 07/09/2012 CL

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PRECISION MEASUREMENT
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