



BARGE "EMS 3048"

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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
3 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8
3 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

October 4, 2018

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3048"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,591.04	0	4,229.79	0	3,866.98	0	3,504.17	0	3,141.36	0	2,778.55	0	2,415.75
1/4		1/4		1/4		1/4	4,583.53	1/4	4,222.23	1/4	3,859.42	1/4	3,496.61	1/4	3,133.80	1/4	2,771.00	1/4	2,408.19
1/2		1/2		1/2		1/2	4,576.02	1/2	4,214.67	1/2	3,851.86	1/2	3,489.05	1/2	3,126.25	1/2	2,763.44	1/2	2,400.63
3/4		3/4		3/4		3/4	4,568.50	3/4	4,207.11	3/4	3,844.30	3/4	3,481.50	3/4	3,118.69	3/4	2,755.88	3/4	2,393.07
1		1		1		1	4,560.99	1	4,199.55	1	3,836.74	1	3,473.94	1	3,111.13	1	2,748.32	1	2,385.51
1/4		1/4		1/4		1/4	4,553.47	1/4	4,191.99	1/4	3,829.19	1/4	3,466.38	1/4	3,103.57	1/4	2,740.76	1/4	2,377.95
1/2		1/2		1/2		1/2	4,545.95	1/2	4,184.44	1/2	3,821.63	1/2	3,458.82	1/2	3,096.01	1/2	2,733.20	1/2	2,370.40
3/4		3/4		3/4		3/4	4,538.44	3/4	4,176.88	3/4	3,814.07	3/4	3,451.26	3/4	3,088.45	3/4	2,725.65	3/4	2,362.84
2		2		2		2	4,530.92	2	4,169.32	2	3,806.51	2	3,443.70	2	3,080.89	2	2,718.09	2	2,355.28
1/4		1/4		1/4		1/4	4,523.40	1/4	4,161.76	1/4	3,798.95	1/4	3,436.14	1/4	3,073.34	1/4	2,710.53	1/4	2,347.72
1/2		1/2		1/2		1/2	4,515.88	1/2	4,154.20	1/2	3,791.39	1/2	3,428.59	1/2	3,065.78	1/2	2,702.97	1/2	2,340.16
3/4		3/4		3/4		3/4	4,508.37	3/4	4,146.64	3/4	3,783.84	3/4	3,421.03	3/4	3,058.22	3/4	2,695.41	3/4	2,332.60
3		3		3		3	4,500.85	3	4,139.08	3	3,776.28	3	3,413.47	3	3,050.66	3	2,687.85	3	2,325.04
1/4		1/4		1/4		1/4	4,493.33	1/4	4,131.53	1/4	3,768.72	1/4	3,405.91	1/4	3,043.10	1/4	2,680.29	1/4	2,317.49
1/2		1/2		1/2		1/2	4,485.81	1/2	4,123.97	1/2	3,761.16	1/2	3,398.35	1/2	3,035.54	1/2	2,672.74	1/2	2,309.93
3/4		3/4		3/4		3/4	4,478.30	3/4	4,116.41	3/4	3,753.60	3/4	3,390.79	3/4	3,027.99	3/4	2,665.18	3/4	2,302.37
4		4		4		4	4,470.78	4	4,108.85	4	3,746.04	4	3,383.23	4	3,020.43	4	2,657.62	4	2,294.81
1/4		1/4		1/4		1/4	4,463.26	1/4	4,101.29	1/4	3,738.48	1/4	3,375.68	1/4	3,012.87	1/4	2,650.06	1/4	2,287.25
1/2		1/2		1/2		1/2	4,455.75	1/2	4,093.73	1/2	3,730.93	1/2	3,368.12	1/2	3,005.31	1/2	2,642.50	1/2	2,279.69
3/4		3/4		3/4		3/4	4,448.23	3/4	4,086.18	3/4	3,723.37	3/4	3,360.56	3/4	2,997.75	3/4	2,634.94	3/4	2,272.14
5		5		5		5	4,440.71	5	4,078.62	5	3,715.81	5	3,353.00	5	2,990.19	5	2,627.38	5	2,264.58
1/4		1/4		1/4		1/4	4,433.19	1/4	4,071.06	1/4	3,708.25	1/4	3,345.44	1/4	2,982.63	1/4	2,619.83	1/4	2,257.02
1/2		1/2		1/2		1/2	4,425.68	1/2	4,063.50	1/2	3,700.69	1/2	3,337.88	1/2	2,975.08	1/2	2,612.27	1/2	2,249.46
3/4		3/4		3/4		3/4	4,418.16	3/4	4,055.94	3/4	3,693.13	3/4	3,330.33	3/4	2,967.52	3/4	2,604.71	3/4	2,241.90
6		6		6		6	4,410.64	6	4,048.38	6	3,685.57	6	3,322.77	6	2,959.96	6	2,597.15	6	2,234.34
1/4		1/4		1/4		1/4	4,403.13	1/4	4,040.82	1/4	3,678.02	1/4	3,315.21	1/4	2,952.40	1/4	2,589.59	1/4	2,226.78
1/2		1/2		1/2	4,722.36	1/2	4,395.61	1/2	4,033.27	1/2	3,670.46	1/2	3,307.65	1/2	2,944.84	1/2	2,582.03	1/2	2,219.23
3/4		3/4		3/4	4,718.83	3/4	4,388.09	3/4	4,025.71	3/4	3,662.90	3/4	3,300.09	3/4	2,937.28	3/4	2,574.48	3/4	2,211.67
7		7		7	4,715.30	7	4,380.57	7	4,018.15	7	3,655.34	7	3,292.53	7	2,929.72	7	2,566.92	7	2,204.11
1/4		1/4		1/4	4,711.76	1/4	4,373.06	1/4	4,010.59	1/4	3,647.78	1/4	3,284.97	1/4	2,922.17	1/4	2,559.36	1/4	2,196.55
1/2		1/2		1/2	4,707.15	1/2	4,365.54	1/2	4,003.03	1/2	3,640.22	1/2	3,277.42	1/2	2,914.61	1/2	2,551.80	1/2	2,188.99
3/4		3/4		3/4	4,702.54	3/4	4,358.02	3/4	3,995.47	3/4	3,632.67	3/4	3,269.86	3/4	2,907.05	3/4	2,544.24	3/4	2,181.43
8		8		8	4,697.93	8	4,350.50	8	3,987.91	8	3,625.11	8	3,262.30	8	2,899.49	8	2,536.68	8	2,173.87
1/4		1/4		1/4	4,693.32	1/4	4,342.99	1/4	3,980.36	1/4	3,617.55	1/4	3,254.74	1/4	2,891.93	1/4	2,529.12	1/4	2,166.32
1/2		1/2		1/2	4,687.63	1/2	4,335.47	1/2	3,972.80	1/2	3,609.99	1/2	3,247.18	1/2	2,884.37	1/2	2,521.57	1/2	2,158.76
3/4		3/4		3/4	4,681.93	3/4	4,327.95	3/4	3,965.24	3/4	3,602.43	3/4	3,239.62	3/4	2,876.82	3/4	2,514.01	3/4	2,151.20
9		9		9	4,676.24	9	4,320.44	9	3,957.68	9	3,594.87	9	3,232.06	9	2,869.26	9	2,506.45	9	2,143.64
1/4		1/4		1/4	4,670.55	1/4	4,312.92	1/4	3,950.12	1/4	3,587.31	1/4	3,224.51	1/4	2,861.70	1/4	2,498.89	1/4	2,136.08
1/2		1/2		1/2	4,663.72	1/2	4,305.36	1/2	3,942.56	1/2	3,579.76	1/2	3,216.95	1/2	2,854.14	1/2	2,491.33	1/2	2,128.52
3/4		3/4		3/4	4,656.89	3/4	4,297.81	3/4	3,935.01	3/4	3,572.20	3/4	3,209.39	3/4	2,846.58	3/4	2,483.77	3/4	2,120.97
10		10		10	4,650.06	10	4,290.25	10	3,927.45	10	3,564.64	10	3,201.83	10	2,839.02	10	2,476.21	10	2,113.41
1/4		1/4		1/4	4,643.22	1/4	4,282.70	1/4	3,919.89	1/4	3,557.08	1/4	3,194.27	1/4	2,831.46	1/4	2,468.66	1/4	2,105.85
1/2		1/2		1/2	4,635.81	1/2	4,275.14	1/2	3,912.33	1/2	3,549.52	1/2	3,186.71	1/2	2,823.91	1/2	2,461.10	1/2	2,098.29
3/4		3/4		3/4	4,628.39	3/4	4,267.58	3/4	3,904.77	3/4	3,541.96	3/4	3,179.16	3/4	2,816.35	3/4	2,453.54	3/4	2,090.73
11		11		11	4,620.97	11	4,260.02	11	3,897.21	11	3,534.40	11	3,171.60	11	2,808.79	11	2,445.98	11	2,083.17
1/4		1/4		1/4	4,613.55	1/4	4,252.46	1/4	3,889.65	1/4	3,526.85	1/4	3,164.04	1/4	2,801.23	1/4	2,438.42	1/4	2,075.61
1/2		1/2		1/2	4,606.05	1/2	4,244.90	1/2	3,882.10	1/2	3,519.29	1/2	3,156.48	1/2	2,793.67	1/2	2,430.86	1/2	2,068.06
3/4		3/4		3/4	4,598.54	3/4	4,237.35	3/4	3,874.54	3/4	3,511.73	3/4	3,148.92	3/4	2,786.11	3/4	2,423.31	3/4	2,060.50

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 10'-06" OFF CENTERLINE AND 42'-00" 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 3048"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,052.94	0	1,690.13	0	1,327.84	0	965.45	0	609.49	0	247.16	0		0		0		0	
1/4	2,045.38	1/4	1,682.57	1/4	1,320.28	1/4	957.91	1/4	602.15	1/4	239.61	1/4		1/4		1/4		1/4	
1/2	2,037.82	1/2	1,675.01	1/2	1,312.72	1/2	950.38	1/2	594.62	1/2	232.24	1/2		1/2		1/2		1/2	
3/4	2,030.26	3/4	1,667.46	3/4	1,305.16	3/4	942.84	3/4	587.10	3/4	224.88	3/4		3/4		3/4		3/4	
1	2,022.70	1	1,659.90	1	1,297.60	1	935.30	1	579.58	1	217.51	1		1		1		1	
1/4	2,015.15	1/4	1,652.34	1/4	1,290.05	1/4	927.76	1/4	572.06	1/4	210.14	1/4		1/4		1/4		1/4	
1/2	2,007.59	1/2	1,644.78	1/2	1,282.49	1/2	920.23	1/2	564.51	1/2	202.80	1/2		1/2		1/2		1/2	
3/4	2,000.03	3/4	1,637.22	3/4	1,274.93	3/4	912.69	3/4	556.96	3/4	195.46	3/4		3/4		3/4		3/4	
2	1,992.47	2	1,629.66	2	1,267.37	2	905.15	2	549.41	2	188.12	2		2		2		2	
1/4	1,984.91	1/4	1,622.10	1/4	1,259.81	1/4	897.61	1/4	541.86	1/4	180.77	1/4		1/4		1/4		1/4	
1/2	1,977.35	1/2	1,614.55	1/2	1,252.25	1/2	890.08	1/2	534.31	1/2	173.43	1/2		1/2		1/2		1/2	
3/4	1,969.80	3/4	1,606.99	3/4	1,244.69	3/4	882.54	3/4	526.76	3/4	166.09	3/4		3/4		3/4		3/4	
3	1,962.24	3	1,599.43	3	1,237.13	3	875.00	3	519.22	3	158.75	3		3		3		3	
1/4	1,954.68	1/4	1,591.87	1/4	1,229.57	1/4	867.46	1/4	511.67	1/4	151.41	1/4		1/4		1/4		1/4	
1/2	1,947.12	1/2	1,584.31	1/2	1,222.01	1/2	859.92	1/2	504.11	1/2	144.08	1/2		1/2		1/2		1/2	
3/4	1,939.56	3/4	1,576.75	3/4	1,214.45	3/4	852.38	3/4	496.55	3/4	136.74	3/4		3/4		3/4		3/4	
4	1,932.00	4	1,569.19	4	1,206.89	4	844.84	4	488.99	4	129.41	4		4		4		4	
1/4	1,924.44	1/4	1,561.64	1/4	1,199.33	1/4	837.30	1/4	481.43	1/4	122.08	1/4		1/4		1/4		1/4	
1/2	1,916.89	1/2	1,554.11	1/2	1,191.77	1/2	829.93	1/2	473.88	1/2	114.77	1/2		1/2		1/2		1/2	
3/4	1,909.33	3/4	1,546.58	3/4	1,184.21	3/4	822.55	3/4	466.32	3/4	107.46	3/4		3/4		3/4		3/4	
5	1,901.77	5	1,539.05	5	1,176.65	5	815.18	5	458.76	5	100.15	5		5		5		5	
1/4	1,894.21	1/4	1,531.52	1/4	1,169.09	1/4	807.80	1/4	451.20	1/4	92.84	1/4		1/4		1/4		1/4	
1/2	1,886.65	1/2	1,523.99	1/2	1,161.54	1/2	800.45	1/2	443.64	1/2	86.06	1/2		1/2		1/2		1/2	
3/4	1,879.09	3/4	1,516.47	3/4	1,153.98	3/4	793.10	3/4	436.08	3/4	79.27	3/4		3/4		3/4		3/4	
6	1,871.53	6	1,508.94	6	1,146.42	6	785.74	6	428.52	6	72.49	6		6		6		6	
1/4	1,863.98	1/4	1,501.42	1/4	1,138.86	1/4	778.39	1/4	420.96	1/4	65.70	1/4		1/4		1/4		1/4	
1/2	1,856.42	1/2	1,493.89	1/2	1,131.31	1/2	771.04	1/2	413.40	1/2	60.09	1/2		1/2		1/2		1/2	
3/4	1,848.86	3/4	1,486.37	3/4	1,123.77	3/4	763.69	3/4	405.84	3/4	54.47	3/4		3/4		3/4		3/4	
7	1,841.30	7	1,478.84	7	1,116.23	7	756.33	7	398.28	7	48.85	7		7		7		7	
1/4	1,833.74	1/4	1,471.32	1/4	1,108.69	1/4	748.98	1/4	390.72	1/4	43.23	1/4		1/4		1/4		1/4	
1/2	1,826.18	1/2	1,463.79	1/2	1,101.15	1/2	741.64	1/2	383.16	1/2	38.87	1/2		1/2		1/2		1/2	
3/4	1,818.63	3/4	1,456.27	3/4	1,093.61	3/4	734.30	3/4	375.60	3/4	34.51	3/4		3/4		3/4		3/4	
8	1,811.07	8	1,448.74	8	1,086.07	8	726.95	8	368.04	8	30.15	8		8		8		8	
1/4	1,803.51	1/4	1,441.21	1/4	1,078.53	1/4	719.61	1/4	360.48	1/4	25.79	1/4		1/4		1/4		1/4	
1/2	1,795.95	1/2	1,433.66	1/2	1,070.99	1/2	712.27	1/2	352.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,788.39	3/4	1,426.11	3/4	1,063.45	3/4	704.93	3/4	345.36	3/4		3/4		3/4		3/4		3/4	
9	1,780.83	9	1,418.55	9	1,055.91	9	697.59	9	337.80	9		9		9		9		9	
1/4	1,773.27	1/4	1,411.00	1/4	1,048.37	1/4	690.24	1/4	330.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,765.72	1/2	1,403.44	1/2	1,040.83	1/2	682.90	1/2	322.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,758.16	3/4	1,395.88	3/4	1,033.29	3/4	675.56	3/4	315.13	3/4		3/4		3/4		3/4		3/4	
10	1,750.60	10	1,388.32	10	1,025.75	10	668.22	10	307.57	10		10		10		10		10	
1/4	1,743.04	1/4	1,380.76	1/4	1,018.21	1/4	660.88	1/4	300.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,735.48	1/2	1,373.20	1/2	1,010.68	1/2	653.54	1/2	292.46	1/2		1/2		1/2		1/2		1/2	
3/4	1,727.92	3/4	1,365.64	3/4	1,003.14	3/4	646.20	3/4	284.91	3/4		3/4		3/4		3/4		3/4	
11	1,720.36	11	1,358.08	11	995.60	11	638.85	11	277.36	11		11		11		11		11	
1/4	1,712.81	1/4	1,350.52	1/4	988.06	1/4	631.51	1/4	269.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.25	1/2	1,342.96	1/2	980.53	1/2	624.17	1/2	262.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.69	3/4	1,335.40	3/4	972.99	3/4	616.83	3/4	254.71	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2018 CL
CALCULATED: 10/03/2018 CL
PRINTED: 10/04/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 3048"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,598.07	0	4,237.36	0	3,874.99	0	3,512.62	0	3,150.26	0	2,787.89	0	2,425.52
1/4		1/4		1/4		1/4	4,590.57	1/4	4,229.81	1/4	3,867.44	1/4	3,505.07	1/4	3,142.71	1/4	2,780.34	1/4	2,417.97
1/2		1/2		1/2		1/2	4,583.08	1/2	4,222.26	1/2	3,859.89	1/2	3,497.52	1/2	3,135.16	1/2	2,772.79	1/2	2,410.43
3/4		3/4		3/4		3/4	4,575.58	3/4	4,214.71	3/4	3,852.34	3/4	3,489.98	3/4	3,127.61	3/4	2,765.24	3/4	2,402.88
1		1		1		1	4,568.08	1	4,207.16	1	3,844.79	1	3,482.43	1	3,120.06	1	2,757.69	1	2,395.33
1/4		1/4		1/4		1/4	4,560.57	1/4	4,199.61	1/4	3,837.24	1/4	3,474.88	1/4	3,112.51	1/4	2,750.14	1/4	2,387.78
1/2		1/2		1/2		1/2	4,553.06	1/2	4,192.06	1/2	3,829.69	1/2	3,467.33	1/2	3,104.96	1/2	2,742.59	1/2	2,380.23
3/4		3/4		3/4		3/4	4,545.56	3/4	4,184.51	3/4	3,822.14	3/4	3,459.78	3/4	3,097.41	3/4	2,735.05	3/4	2,372.68
2		2		2		2	4,538.05	2	4,176.96	2	3,814.60	2	3,452.23	2	3,089.86	2	2,727.50	2	2,365.13
1/4		1/4		1/4		1/4	4,530.54	1/4	4,169.41	1/4	3,807.05	1/4	3,444.68	1/4	3,082.31	1/4	2,719.95	1/4	2,357.58
1/2		1/2		1/2		1/2	4,523.03	1/2	4,161.86	1/2	3,799.50	1/2	3,437.13	1/2	3,074.76	1/2	2,712.40	1/2	2,350.03
3/4		3/4		3/4		3/4	4,515.52	3/4	4,154.31	3/4	3,791.95	3/4	3,429.58	3/4	3,067.21	3/4	2,704.85	3/4	2,342.48
3		3		3		3	4,508.02	3	4,146.76	3	3,784.40	3	3,422.03	3	3,059.67	3	2,697.30	3	2,334.93
1/4		1/4		1/4		1/4	4,500.51	1/4	4,139.22	1/4	3,776.85	1/4	3,414.48	1/4	3,052.12	1/4	2,689.75	1/4	2,327.38
1/2		1/2		1/2		1/2	4,493.00	1/2	4,131.67	1/2	3,769.30	1/2	3,406.93	1/2	3,044.57	1/2	2,682.20	1/2	2,319.83
3/4		3/4		3/4		3/4	4,485.49	3/4	4,124.12	3/4	3,761.75	3/4	3,399.38	3/4	3,037.02	3/4	2,674.65	3/4	2,312.28
4		4		4		4	4,477.98	4	4,116.57	4	3,754.20	4	3,391.83	4	3,029.47	4	2,667.10	4	2,304.74
1/4		1/4		1/4		1/4	4,470.48	1/4	4,109.02	1/4	3,746.65	1/4	3,384.29	1/4	3,021.92	1/4	2,659.55	1/4	2,297.19
1/2		1/2		1/2		1/2	4,462.97	1/2	4,101.47	1/2	3,739.10	1/2	3,376.74	1/2	3,014.37	1/2	2,652.00	1/2	2,289.64
3/4		3/4		3/4		3/4	4,455.46	3/4	4,093.92	3/4	3,731.55	3/4	3,369.19	3/4	3,006.82	3/4	2,644.45	3/4	2,282.09
5		5		5		5	4,447.95	5	4,086.37	5	3,724.00	5	3,361.64	5	2,999.27	5	2,636.90	5	2,274.54
1/4		1/4		1/4		1/4	4,440.44	1/4	4,078.82	1/4	3,716.45	1/4	3,354.09	1/4	2,991.72	1/4	2,629.36	1/4	2,266.99
1/2		1/2		1/2		1/2	4,432.94	1/2	4,071.27	1/2	3,708.91	1/2	3,346.54	1/2	2,984.17	1/2	2,621.81	1/2	2,259.44
3/4		3/4		3/4		3/4	4,425.43	3/4	4,063.72	3/4	3,701.36	3/4	3,338.99	3/4	2,976.62	3/4	2,614.26	3/4	2,251.89
6		6		6		6	4,417.92	6	4,056.17	6	3,693.81	6	3,331.44	6	2,969.07	6	2,606.71	6	2,244.34
1/4		1/4		1/4		1/4	4,410.41	1/4	4,048.62	1/4	3,686.26	1/4	3,323.89	1/4	2,961.52	1/4	2,599.16	1/4	2,236.79
1/2		1/2		1/2		1/2	4,402.90	1/2	4,041.07	1/2	3,678.71	1/2	3,316.34	1/2	2,953.98	1/2	2,591.61	1/2	2,229.24
3/4		3/4		3/4		3/4	4,395.39	3/4	4,033.53	3/4	3,671.16	3/4	3,308.79	3/4	2,946.43	3/4	2,584.06	3/4	2,221.69
7		7		7	4,714.24	7	4,387.89	7	4,025.98	7	3,663.61	7	3,301.24	7	2,938.88	7	2,576.51	7	2,214.14
1/4		1/4		1/4	4,710.71	1/4	4,380.38	1/4	4,018.43	1/4	3,656.06	1/4	3,293.69	1/4	2,931.33	1/4	2,568.96	1/4	2,206.59
1/2		1/2		1/2	4,707.18	1/2	4,372.87	1/2	4,010.88	1/2	3,648.51	1/2	3,286.14	1/2	2,923.78	1/2	2,561.41	1/2	2,199.05
3/4		3/4		3/4	4,703.66	3/4	4,365.36	3/4	4,003.33	3/4	3,640.96	3/4	3,278.60	3/4	2,916.23	3/4	2,553.86	3/4	2,191.50
8		8		8	4,699.05	8	4,357.85	8	3,995.78	8	3,633.41	8	3,271.05	8	2,908.68	8	2,546.31	8	2,183.95
1/4		1/4		1/4	4,694.44	1/4	4,350.35	1/4	3,988.23	1/4	3,625.86	1/4	3,263.50	1/4	2,901.13	1/4	2,538.76	1/4	2,176.40
1/2		1/2		1/2	4,689.84	1/2	4,342.84	1/2	3,980.68	1/2	3,618.31	1/2	3,255.95	1/2	2,893.58	1/2	2,531.21	1/2	2,168.85
3/4		3/4		3/4	4,685.23	3/4	4,335.33	3/4	3,973.13	3/4	3,610.76	3/4	3,248.40	3/4	2,886.03	3/4	2,523.67	3/4	2,161.30
9		9		9	4,679.55	9	4,327.82	9	3,965.58	9	3,603.22	9	3,240.85	9	2,878.48	9	2,516.12	9	2,153.75
1/4		1/4		1/4	4,673.86	1/4	4,320.31	1/4	3,958.03	1/4	3,595.67	1/4	3,233.30	1/4	2,870.93	1/4	2,508.57	1/4	2,146.20
1/2		1/2		1/2	4,668.18	1/2	4,312.81	1/2	3,950.48	1/2	3,588.12	1/2	3,225.75	1/2	2,863.38	1/2	2,501.02	1/2	2,138.65
3/4		3/4		3/4	4,662.49	3/4	4,305.30	3/4	3,942.93	3/4	3,580.57	3/4	3,218.20	3/4	2,855.83	3/4	2,493.47	3/4	2,131.10
10		10		10	4,655.67	10	4,297.75	10	3,935.38	10	3,573.02	10	3,210.65	10	2,848.29	10	2,485.92	10	2,123.55
1/4		1/4		1/4	4,648.85	1/4	4,290.20	1/4	3,927.84	1/4	3,565.47	1/4	3,203.10	1/4	2,840.74	1/4	2,478.37	1/4	2,116.00
1/2		1/2		1/2	4,642.02	1/2	4,282.65	1/2	3,920.29	1/2	3,557.92	1/2	3,195.55	1/2	2,833.19	1/2	2,470.82	1/2	2,108.45
3/4		3/4		3/4	4,635.20	3/4	4,275.10	3/4	3,912.74	3/4	3,550.37	3/4	3,188.00	3/4	2,825.64	3/4	2,463.27	3/4	2,100.90
11		11		11	4,627.79	11	4,267.55	11	3,905.19	11	3,542.82	11	3,180.45	11	2,818.09	11	2,455.72	11	2,093.36
1/4		1/4		1/4	4,620.38	1/4	4,260.00	1/4	3,897.64	1/4	3,535.27	1/4	3,172.90	1/4	2,810.54	1/4	2,448.17	1/4	2,085.81
1/2		1/2		1/2	4,612.97	1/2	4,252.45	1/2	3,890.09	1/2	3,527.72	1/2	3,165.36	1/2	2,802.99	1/2	2,440.62	1/2	2,078.26
3/4		3/4		3/4	4,605.56	3/4	4,244.91	3/4	3,882.54	3/4	3,520.17	3/4	3,157.81	3/4	2,795.44	3/4	2,433.07	3/4	2,070.71

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 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 3048"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,063.16	0	1,700.79	0	1,338.94	0	977.96	0	623.41	0	261.93	0		0		0		0	
1/4	2,055.61	1/4	1,693.24	1/4	1,331.39	1/4	970.48	1/4	616.07	1/4	254.39	1/4		1/4		1/4		1/4	
1/2	2,048.06	1/2	1,685.69	1/2	1,323.84	1/2	963.00	1/2	608.74	1/2	246.85	1/2		1/2		1/2		1/2	
3/4	2,040.51	3/4	1,678.14	3/4	1,316.29	3/4	955.53	3/4	601.41	3/4	239.31	3/4		3/4		3/4		3/4	
1	2,032.96	1	1,670.59	1	1,308.74	1	948.05	1	593.90	1	231.96	1		1		1		1	
1/4	2,025.41	1/4	1,663.04	1/4	1,301.19	1/4	940.57	1/4	586.38	1/4	224.60	1/4		1/4		1/4		1/4	
1/2	2,017.86	1/2	1,655.50	1/2	1,293.64	1/2	933.09	1/2	578.87	1/2	217.24	1/2		1/2		1/2		1/2	
3/4	2,010.31	3/4	1,647.95	3/4	1,286.09	3/4	925.61	3/4	571.35	3/4	209.88	3/4		3/4		3/4		3/4	
2	2,002.76	2	1,640.40	2	1,278.54	2	918.13	2	563.82	2	202.55	2		2		2		2	
1/4	1,995.21	1/4	1,632.85	1/4	1,270.99	1/4	910.65	1/4	556.28	1/4	195.21	1/4		1/4		1/4		1/4	
1/2	1,987.66	1/2	1,625.30	1/2	1,263.44	1/2	903.17	1/2	548.74	1/2	187.88	1/2		1/2		1/2		1/2	
3/4	1,980.12	3/4	1,617.75	3/4	1,255.89	3/4	895.69	3/4	541.20	3/4	180.55	3/4		3/4		3/4		3/4	
3	1,972.57	3	1,610.20	3	1,248.34	3	888.21	3	533.66	3	173.22	3		3		3		3	
1/4	1,965.02	1/4	1,602.65	1/4	1,240.79	1/4	880.74	1/4	526.12	1/4	165.89	1/4		1/4		1/4		1/4	
1/2	1,957.47	1/2	1,595.10	1/2	1,233.24	1/2	873.26	1/2	518.58	1/2	158.55	1/2		1/2		1/2		1/2	
3/4	1,949.92	3/4	1,587.55	3/4	1,225.69	3/4	865.78	3/4	511.04	3/4	151.22	3/4		3/4		3/4		3/4	
4	1,942.37	4	1,580.00	4	1,218.14	4	858.30	4	503.49	4	143.90	4		4		4		4	
1/4	1,934.82	1/4	1,572.45	1/4	1,210.59	1/4	850.81	1/4	495.94	1/4	136.57	1/4		1/4		1/4		1/4	
1/2	1,927.27	1/2	1,564.90	1/2	1,203.04	1/2	843.33	1/2	488.39	1/2	129.25	1/2		1/2		1/2		1/2	
3/4	1,919.72	3/4	1,557.35	3/4	1,195.49	3/4	835.85	3/4	480.84	3/4	121.93	3/4		3/4		3/4		3/4	
5	1,912.17	5	1,549.83	5	1,187.94	5	828.53	5	473.29	5	114.63	5		5		5		5	
1/4	1,904.62	1/4	1,542.31	1/4	1,180.39	1/4	821.22	1/4	465.74	1/4	107.33	1/4		1/4		1/4		1/4	
1/2	1,897.07	1/2	1,534.79	1/2	1,172.84	1/2	813.90	1/2	458.19	1/2	100.03	1/2		1/2		1/2		1/2	
3/4	1,889.52	3/4	1,527.27	3/4	1,165.29	3/4	806.58	3/4	450.64	3/4	92.73	3/4		3/4		3/4		3/4	
6	1,881.97	6	1,519.76	6	1,157.74	6	799.29	6	443.09	6	85.95	6		6		6		6	
1/4	1,874.43	1/4	1,512.24	1/4	1,150.19	1/4	791.99	1/4	435.54	1/4	79.18	1/4		1/4		1/4		1/4	
1/2	1,866.88	1/2	1,504.73	1/2	1,142.64	1/2	784.70	1/2	427.99	1/2	72.40	1/2		1/2		1/2		1/2	
3/4	1,859.33	3/4	1,497.21	3/4	1,135.09	3/4	777.41	3/4	420.44	3/4	65.62	3/4		3/4		3/4		3/4	
7	1,851.78	7	1,489.69	7	1,127.60	7	770.07	7	412.89	7	60.01	7		7		7		7	
1/4	1,844.23	1/4	1,482.18	1/4	1,120.11	1/4	762.73	1/4	405.34	1/4	54.40	1/4		1/4		1/4		1/4	
1/2	1,836.68	1/2	1,474.66	1/2	1,112.62	1/2	755.40	1/2	397.79	1/2	48.79	1/2		1/2		1/2		1/2	
3/4	1,829.13	3/4	1,467.14	3/4	1,105.13	3/4	748.06	3/4	390.24	3/4	43.18	3/4		3/4		3/4		3/4	
8	1,821.58	8	1,459.63	8	1,097.65	8	740.73	8	382.69	8	38.83	8		8		8		8	
1/4	1,814.03	1/4	1,452.11	1/4	1,090.17	1/4	733.39	1/4	375.14	1/4	34.47	1/4		1/4		1/4		1/4	
1/2	1,806.48	1/2	1,444.60	1/2	1,082.68	1/2	726.06	1/2	367.59	1/2	30.12	1/2		1/2		1/2		1/2	
3/4	1,798.93	3/4	1,437.08	3/4	1,075.20	3/4	718.73	3/4	360.04	3/4	25.76	3/4		3/4		3/4		3/4	
9	1,791.38	9	1,429.53	9	1,067.72	9	711.39	9	352.49	9		9		9		9		9	
1/4	1,783.83	1/4	1,421.99	1/4	1,060.24	1/4	704.06	1/4	344.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,776.28	1/2	1,414.44	1/2	1,052.76	1/2	696.73	1/2	337.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,768.74	3/4	1,406.90	3/4	1,045.28	3/4	689.40	3/4	329.84	3/4		3/4		3/4		3/4		3/4	
10	1,761.19	10	1,399.35	10	1,037.80	10	682.06	10	322.29	10		10		10		10		10	
1/4	1,753.64	1/4	1,391.80	1/4	1,030.32	1/4	674.73	1/4	314.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,746.09	1/2	1,384.25	1/2	1,022.84	1/2	667.40	1/2	307.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,738.54	3/4	1,376.70	3/4	1,015.36	3/4	660.07	3/4	299.63	3/4		3/4		3/4		3/4		3/4	
11	1,730.99	11	1,369.15	11	1,007.88	11	652.73	11	292.09	11		11		11		11		11	
1/4	1,723.44	1/4	1,361.60	1/4	1,000.40	1/4	645.40	1/4	284.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,715.89	1/2	1,354.05	1/2	992.92	1/2	638.07	1/2	277.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,708.34	3/4	1,346.50	3/4	985.44	3/4	630.74	3/4	269.47	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2018 CL
CALCULATED: 10/03/2018 CL
PRINTED: 10/04/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 3048"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,579.71	0	4,219.81	0	3,858.26	0	3,496.72	0	3,135.17	0	2,773.63	0	2,412.08
1/4		1/4		1/4		1/4	4,572.24	1/4	4,212.28	1/4	3,850.73	1/4	3,489.19	1/4	3,127.64	1/4	2,766.09	1/4	2,404.55
1/2		1/2		1/2		1/2	4,564.76	1/2	4,204.74	1/2	3,843.20	1/2	3,481.65	1/2	3,120.11	1/2	2,758.56	1/2	2,397.02
3/4		3/4		3/4		3/4	4,557.27	3/4	4,197.21	3/4	3,835.67	3/4	3,474.12	3/4	3,112.58	3/4	2,751.03	3/4	2,389.48
1		1		1		1	4,549.78	1	4,189.68	1	3,828.13	1	3,466.59	1	3,105.04	1	2,743.50	1	2,381.95
1/4		1/4		1/4		1/4	4,542.30	1/4	4,182.15	1/4	3,820.60	1/4	3,459.06	1/4	3,097.51	1/4	2,735.96	1/4	2,374.42
1/2		1/2		1/2		1/2	4,534.81	1/2	4,174.62	1/2	3,813.07	1/2	3,451.52	1/2	3,089.98	1/2	2,728.43	1/2	2,366.89
3/4		3/4		3/4		3/4	4,527.32	3/4	4,167.08	3/4	3,805.54	3/4	3,443.99	3/4	3,082.45	3/4	2,720.90	3/4	2,359.35
2		2		2		2	4,519.83	2	4,159.55	2	3,798.01	2	3,436.46	2	3,074.91	2	2,713.37	2	2,351.82
1/4		1/4		1/4		1/4	4,512.34	1/4	4,152.02	1/4	3,790.47	1/4	3,428.93	1/4	3,067.38	1/4	2,705.84	1/4	2,344.29
1/2		1/2		1/2		1/2	4,504.85	1/2	4,144.49	1/2	3,782.94	1/2	3,421.40	1/2	3,059.85	1/2	2,698.30	1/2	2,336.76
3/4		3/4		3/4		3/4	4,497.36	3/4	4,136.95	3/4	3,775.41	3/4	3,413.86	3/4	3,052.32	3/4	2,690.77	3/4	2,329.23
3		3		3		3	4,489.86	3	4,129.42	3	3,767.88	3	3,406.33	3	3,044.79	3	2,683.24	3	2,321.69
1/4		1/4		1/4		1/4	4,482.37	1/4	4,121.89	1/4	3,760.34	1/4	3,398.80	1/4	3,037.25	1/4	2,675.71	1/4	2,314.16
1/2		1/2		1/2		1/2	4,474.88	1/2	4,114.36	1/2	3,752.81	1/2	3,391.27	1/2	3,029.72	1/2	2,668.18	1/2	2,306.63
3/4		3/4		3/4		3/4	4,467.39	3/4	4,106.83	3/4	3,745.28	3/4	3,383.73	3/4	3,022.19	3/4	2,660.64	3/4	2,299.10
4		4		4		4	4,459.90	4	4,099.29	4	3,737.75	4	3,376.20	4	3,014.66	4	2,653.11	4	2,291.57
1/4		1/4		1/4		1/4	4,452.41	1/4	4,091.76	1/4	3,730.22	1/4	3,368.67	1/4	3,007.12	1/4	2,645.58	1/4	2,284.03
1/2		1/2		1/2		1/2	4,444.92	1/2	4,084.23	1/2	3,722.68	1/2	3,361.14	1/2	2,999.59	1/2	2,638.05	1/2	2,276.50
3/4		3/4		3/4		3/4	4,437.43	3/4	4,076.70	3/4	3,715.15	3/4	3,353.61	3/4	2,992.06	3/4	2,630.51	3/4	2,268.97
5		5		5		5	4,429.94	5	4,069.16	5	3,707.62	5	3,346.07	5	2,984.53	5	2,622.98	5	2,261.44
1/4		1/4		1/4		1/4	4,422.45	1/4	4,061.63	1/4	3,700.09	1/4	3,338.54	1/4	2,977.00	1/4	2,615.45	1/4	2,253.90
1/2		1/2		1/2		1/2	4,414.96	1/2	4,054.10	1/2	3,692.55	1/2	3,331.01	1/2	2,969.46	1/2	2,607.92	1/2	2,246.37
3/4		3/4		3/4		3/4	4,407.46	3/4	4,046.57	3/4	3,685.02	3/4	3,323.48	3/4	2,961.93	3/4	2,600.39	3/4	2,238.84
6		6		6		6	4,399.97	6	4,039.04	6	3,677.49	6	3,315.94	6	2,954.40	6	2,592.85	6	2,231.31
1/4		1/4		1/4		1/4	4,392.48	1/4	4,031.50	1/4	3,669.96	1/4	3,308.41	1/4	2,946.87	1/4	2,585.32	1/4	2,223.78
1/2		1/2		1/2		1/2	4,384.99	1/2	4,023.97	1/2	3,662.43	1/2	3,300.88	1/2	2,939.33	1/2	2,577.79	1/2	2,216.24
3/4		3/4		3/4	4,703.10	3/4	4,377.50	3/4	4,016.44	3/4	3,654.89	3/4	3,293.35	3/4	2,931.80	3/4	2,570.26	3/4	2,208.71
7		7		7	4,699.58	7	4,370.01	7	4,008.91	7	3,647.36	7	3,285.82	7	2,924.27	7	2,562.72	7	2,201.18
1/4		1/4		1/4	4,696.06	1/4	4,362.52	1/4	4,001.37	1/4	3,639.83	1/4	3,278.28	1/4	2,916.74	1/4	2,555.19	1/4	2,193.65
1/2		1/2		1/2	4,692.54	1/2	4,355.03	1/2	3,993.84	1/2	3,632.30	1/2	3,270.75	1/2	2,909.21	1/2	2,547.66	1/2	2,186.11
3/4		3/4		3/4	4,687.94	3/4	4,347.54	3/4	3,986.31	3/4	3,624.76	3/4	3,263.22	3/4	2,901.67	3/4	2,540.13	3/4	2,178.58
8		8		8	4,683.35	8	4,340.05	8	3,978.78	8	3,617.23	8	3,255.69	8	2,894.14	8	2,532.60	8	2,171.05
1/4		1/4		1/4	4,678.75	1/4	4,332.56	1/4	3,971.25	1/4	3,609.70	1/4	3,248.15	1/4	2,886.61	1/4	2,525.06	1/4	2,163.52
1/2		1/2		1/2	4,674.16	1/2	4,325.06	1/2	3,963.71	1/2	3,602.17	1/2	3,240.62	1/2	2,879.08	1/2	2,517.53	1/2	2,155.99
3/4		3/4		3/4	4,668.49	3/4	4,317.57	3/4	3,956.18	3/4	3,594.64	3/4	3,233.09	3/4	2,871.54	3/4	2,510.00	3/4	2,148.45
9		9		9	4,662.81	9	4,310.08	9	3,948.65	9	3,587.10	9	3,225.56	9	2,864.01	9	2,502.47	9	2,140.92
1/4		1/4		1/4	4,657.14	1/4	4,302.59	1/4	3,941.12	1/4	3,579.57	1/4	3,218.03	1/4	2,856.48	1/4	2,494.93	1/4	2,133.39
1/2		1/2		1/2	4,651.47	1/2	4,295.10	1/2	3,933.58	1/2	3,572.04	1/2	3,210.49	1/2	2,848.95	1/2	2,487.40	1/2	2,125.86
3/4		3/4		3/4	4,644.66	3/4	4,287.58	3/4	3,926.05	3/4	3,564.51	3/4	3,202.96	3/4	2,841.42	3/4	2,479.87	3/4	2,118.32
10		10		10	4,637.85	10	4,280.05	10	3,918.52	10	3,556.97	10	3,195.43	10	2,833.88	10	2,472.34	10	2,110.79
1/4		1/4		1/4	4,631.05	1/4	4,272.53	1/4	3,910.99	1/4	3,549.44	1/4	3,187.90	1/4	2,826.35	1/4	2,464.81	1/4	2,103.26
1/2		1/2		1/2	4,624.24	1/2	4,265.00	1/2	3,903.46	1/2	3,541.91	1/2	3,180.36	1/2	2,818.82	1/2	2,457.27	1/2	2,095.73
3/4		3/4		3/4	4,616.85	3/4	4,257.47	3/4	3,895.92	3/4	3,534.38	3/4	3,172.83	3/4	2,811.29	3/4	2,449.74	3/4	2,088.20
11		11		11	4,609.45	11	4,249.94	11	3,888.39	11	3,526.85	11	3,165.30	11	2,803.75	11	2,442.21	11	2,080.66
1/4		1/4		1/4	4,602.06	1/4	4,242.41	1/4	3,880.86	1/4	3,519.31	1/4	3,157.77	1/4	2,796.22	1/4	2,434.68	1/4	2,073.13
1/2		1/2		1/2	4,594.67	1/2	4,234.87	1/2	3,873.33	1/2	3,511.78	1/2	3,150.24	1/2	2,788.69	1/2	2,427.14	1/2	2,065.60
3/4		3/4		3/4	4,587.19	3/4	4,227.34	3/4	3,865.80	3/4	3,504.25	3/4	3,142.70	3/4	2,781.16	3/4	2,419.61	3/4	2,058.07

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 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3048"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,050.53	0	1,688.99	0	1,330.55	0	969.44	0	614.59	0	253.77	0		0		0		0	
1/4	2,043.00	1/4	1,681.46	1/4	1,323.02	1/4	961.93	1/4	607.27	1/4	246.25	1/4		1/4		1/4		1/4	
1/2	2,035.47	1/2	1,673.92	1/2	1,315.49	1/2	954.42	1/2	599.96	1/2	238.73	1/2		1/2		1/2		1/2	
3/4	2,027.94	3/4	1,666.39	3/4	1,307.95	3/4	946.91	3/4	592.46	3/4	231.39	3/4		3/4		3/4		3/4	
1	2,020.41	1	1,658.86	1	1,300.42	1	939.40	1	584.97	1	224.05	1		1		1		1	
1/4	2,012.87	1/4	1,651.33	1/4	1,292.89	1/4	931.89	1/4	577.47	1/4	216.71	1/4		1/4		1/4		1/4	
1/2	2,005.34	1/2	1,643.80	1/2	1,285.36	1/2	924.38	1/2	569.98	1/2	209.37	1/2		1/2		1/2		1/2	
3/4	1,997.81	3/4	1,636.26	3/4	1,277.83	3/4	916.87	3/4	562.46	3/4	202.05	3/4		3/4		3/4		3/4	
2	1,990.28	2	1,628.73	2	1,270.29	2	909.36	2	554.93	2	194.74	2		2		2		2	
1/4	1,982.74	1/4	1,621.20	1/4	1,262.76	1/4	901.85	1/4	547.41	1/4	187.42	1/4		1/4		1/4		1/4	
1/2	1,975.21	1/2	1,613.67	1/2	1,255.23	1/2	894.34	1/2	539.89	1/2	180.11	1/2		1/2		1/2		1/2	
3/4	1,967.68	3/4	1,606.22	3/4	1,247.70	3/4	886.83	3/4	532.37	3/4	172.79	3/4		3/4		3/4		3/4	
3	1,960.15	3	1,598.77	3	1,240.16	3	879.32	3	524.85	3	165.48	3		3		3		3	
1/4	1,952.62	1/4	1,591.32	1/4	1,232.63	1/4	871.81	1/4	517.33	1/4	158.17	1/4		1/4		1/4		1/4	
1/2	1,945.08	1/2	1,583.87	1/2	1,225.10	1/2	864.30	1/2	509.81	1/2	150.85	1/2		1/2		1/2		1/2	
3/4	1,937.55	3/4	1,576.43	3/4	1,217.57	3/4	856.78	3/4	502.27	3/4	143.55	3/4		3/4		3/4		3/4	
4	1,930.02	4	1,568.99	4	1,210.04	4	849.27	4	494.74	4	136.24	4		4		4		4	
1/4	1,922.49	1/4	1,561.55	1/4	1,202.50	1/4	841.76	1/4	487.21	1/4	128.94	1/4		1/4		1/4		1/4	
1/2	1,914.96	1/2	1,554.12	1/2	1,194.97	1/2	834.25	1/2	479.68	1/2	121.63	1/2		1/2		1/2		1/2	
3/4	1,907.42	3/4	1,546.72	3/4	1,187.44	3/4	826.90	3/4	472.15	3/4	114.35	3/4		3/4		3/4		3/4	
5	1,899.89	5	1,539.33	5	1,179.91	5	819.55	5	464.62	5	107.07	5		5		5		5	
1/4	1,892.36	1/4	1,531.94	1/4	1,172.37	1/4	812.20	1/4	457.08	1/4	99.78	1/4		1/4		1/4		1/4	
1/2	1,884.83	1/2	1,524.55	1/2	1,164.84	1/2	804.85	1/2	449.55	1/2	92.50	1/2		1/2		1/2		1/2	
3/4	1,877.29	3/4	1,517.16	3/4	1,157.31	3/4	797.53	3/4	442.02	3/4	85.74	3/4		3/4		3/4		3/4	
6	1,869.76	6	1,509.78	6	1,149.78	6	790.20	6	434.49	6	78.98	6		6		6		6	
1/4	1,862.23	1/4	1,502.39	1/4	1,142.25	1/4	782.88	1/4	426.96	1/4	72.22	1/4		1/4		1/4		1/4	
1/2	1,854.70	1/2	1,495.01	1/2	1,134.71	1/2	775.55	1/2	419.42	1/2	65.47	1/2		1/2		1/2		1/2	
3/4	1,847.17	3/4	1,487.62	3/4	1,127.20	3/4	768.23	3/4	411.89	3/4	59.87	3/4		3/4		3/4		3/4	
7	1,839.63	7	1,480.24	7	1,119.68	7	760.90	7	404.36	7	54.27	7		7		7		7	
1/4	1,832.10	1/4	1,472.85	1/4	1,112.17	1/4	753.58	1/4	396.83	1/4	48.67	1/4		1/4		1/4		1/4	
1/2	1,824.57	1/2	1,465.47	1/2	1,104.65	1/2	746.25	1/2	389.29	1/2	43.08	1/2		1/2		1/2		1/2	
3/4	1,817.04	3/4	1,458.08	3/4	1,097.14	3/4	738.94	3/4	381.76	3/4	38.73	3/4		3/4		3/4		3/4	
8	1,809.50	8	1,450.70	8	1,089.63	8	731.62	8	374.23	8	34.39	8		8		8		8	
1/4	1,801.97	1/4	1,443.31	1/4	1,082.11	1/4	724.30	1/4	366.70	1/4	30.05	1/4		1/4		1/4		1/4	
1/2	1,794.44	1/2	1,435.93	1/2	1,074.60	1/2	716.99	1/2	359.16	1/2	25.71	1/2		1/2		1/2		1/2	
3/4	1,786.91	3/4	1,428.41	3/4	1,067.09	3/4	709.67	3/4	351.63	3/4		3/4		3/4		3/4		3/4	
9	1,779.38	9	1,420.90	9	1,059.57	9	702.36	9	344.10	9		9		9		9		9	
1/4	1,771.84	1/4	1,413.39	1/4	1,052.06	1/4	695.05	1/4	336.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.31	1/2	1,405.87	1/2	1,044.55	1/2	687.73	1/2	329.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,756.78	3/4	1,398.34	3/4	1,037.04	3/4	680.42	3/4	321.50	3/4		3/4		3/4		3/4		3/4	
10	1,749.25	10	1,390.81	10	1,029.53	10	673.10	10	313.97	10		10		10		10		10	
1/4	1,741.71	1/4	1,383.28	1/4	1,022.02	1/4	665.79	1/4	306.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.18	1/2	1,375.74	1/2	1,014.51	1/2	658.47	1/2	298.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,726.65	3/4	1,368.21	3/4	1,006.99	3/4	651.16	3/4	291.38	3/4		3/4		3/4		3/4		3/4	
11	1,719.12	11	1,360.68	11	999.48	11	643.85	11	283.86	11		11		11		11		11	
1/4	1,711.59	1/4	1,353.15	1/4	991.97	1/4	636.53	1/4	276.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,704.05	1/2	1,345.62	1/2	984.46	1/2	629.22	1/2	268.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,696.52	3/4	1,338.08	3/4	976.95	3/4	621.90	3/4	261.29	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2018 CL
CALCULATED: 10/03/2018 CL
PRINTED: 10/04/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "EMS 3048"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,556.44	0	4,197.08	0	3,836.11	0	3,475.14	0	3,114.16	0	2,753.19	0	2,392.21
1/4		1/4		1/4		1/4	4,548.97	1/4	4,189.56	1/4	3,828.59	1/4	3,467.61	1/4	3,106.64	1/4	2,745.67	1/4	2,384.69
1/2		1/2		1/2		1/2	4,541.51	1/2	4,182.04	1/2	3,821.07	1/2	3,460.09	1/2	3,099.12	1/2	2,738.15	1/2	2,377.17
3/4		3/4		3/4		3/4	4,534.03	3/4	4,174.52	3/4	3,813.55	3/4	3,452.57	3/4	3,091.60	3/4	2,730.63	3/4	2,369.65
1		1		1		1	4,526.55	1	4,167.00	1	3,806.03	1	3,445.05	1	3,084.08	1	2,723.11	1	2,362.13
1/4		1/4		1/4		1/4	4,519.08	1/4	4,159.48	1/4	3,798.51	1/4	3,437.53	1/4	3,076.56	1/4	2,715.58	1/4	2,354.61
1/2		1/2		1/2		1/2	4,511.60	1/2	4,151.96	1/2	3,790.99	1/2	3,430.01	1/2	3,069.04	1/2	2,708.06	1/2	2,347.09
3/4		3/4		3/4		3/4	4,504.13	3/4	4,144.44	3/4	3,783.47	3/4	3,422.49	3/4	3,061.52	3/4	2,700.54	3/4	2,339.57
2		2		2		2	4,496.65	2	4,136.92	2	3,775.95	2	3,414.97	2	3,054.00	2	2,693.02	2	2,332.05
1/4		1/4		1/4		1/4	4,489.17	1/4	4,129.40	1/4	3,768.43	1/4	3,407.45	1/4	3,046.48	1/4	2,685.50	1/4	2,324.53
1/2		1/2		1/2		1/2	4,481.69	1/2	4,121.88	1/2	3,760.91	1/2	3,399.93	1/2	3,038.96	1/2	2,677.98	1/2	2,317.01
3/4		3/4		3/4		3/4	4,474.21	3/4	4,114.36	3/4	3,753.39	3/4	3,392.41	3/4	3,031.44	3/4	2,670.46	3/4	2,309.49
3		3		3		3	4,466.73	3	4,106.84	3	3,745.87	3	3,384.89	3	3,023.92	3	2,662.94	3	2,301.97
1/4		1/4		1/4		1/4	4,459.25	1/4	4,099.32	1/4	3,738.35	1/4	3,377.37	1/4	3,016.40	1/4	2,655.42	1/4	2,294.45
1/2		1/2		1/2		1/2	4,451.77	1/2	4,091.80	1/2	3,730.83	1/2	3,369.85	1/2	3,008.88	1/2	2,647.90	1/2	2,286.93
3/4		3/4		3/4		3/4	4,444.29	3/4	4,084.28	3/4	3,723.31	3/4	3,362.33	3/4	3,001.36	3/4	2,640.38	3/4	2,279.41
4		4		4		4	4,436.82	4	4,076.76	4	3,715.78	4	3,354.81	4	2,993.84	4	2,632.86	4	2,271.89
1/4		1/4		1/4		1/4	4,429.34	1/4	4,069.24	1/4	3,708.26	1/4	3,347.29	1/4	2,986.32	1/4	2,625.34	1/4	2,264.37
1/2		1/2		1/2		1/2	4,421.86	1/2	4,061.72	1/2	3,700.74	1/2	3,339.77	1/2	2,978.80	1/2	2,617.82	1/2	2,256.85
3/4		3/4		3/4		3/4	4,414.38	3/4	4,054.20	3/4	3,693.22	3/4	3,332.25	3/4	2,971.27	3/4	2,610.30	3/4	2,249.33
5		5		5		5	4,406.90	5	4,046.68	5	3,685.70	5	3,324.73	5	2,963.75	5	2,602.78	5	2,241.81
1/4		1/4		1/4		1/4	4,399.42	1/4	4,039.16	1/4	3,678.18	1/4	3,317.21	1/4	2,956.23	1/4	2,595.26	1/4	2,234.29
1/2		1/2		1/2		1/2	4,391.94	1/2	4,031.64	1/2	3,670.66	1/2	3,309.69	1/2	2,948.71	1/2	2,587.74	1/2	2,226.77
3/4		3/4		3/4		3/4	4,384.46	3/4	4,024.12	3/4	3,663.14	3/4	3,302.17	3/4	2,941.19	3/4	2,580.22	3/4	2,219.24
6		6		6		6	4,376.98	6	4,016.60	6	3,655.62	6	3,294.65	6	2,933.67	6	2,572.70	6	2,211.72
1/4		1/4		1/4		1/4	4,369.50	1/4	4,009.08	1/4	3,648.10	1/4	3,287.13	1/4	2,926.15	1/4	2,565.18	1/4	2,204.20
1/2		1/2		1/2		1/2	4,362.02	1/2	4,001.56	1/2	3,640.58	1/2	3,279.61	1/2	2,918.63	1/2	2,557.66	1/2	2,196.68
3/4		3/4		3/4	4,679.62	3/4	4,354.55	3/4	3,994.04	3/4	3,633.06	3/4	3,272.09	3/4	2,911.11	3/4	2,550.14	3/4	2,189.16
7		7		7	4,676.11	7	4,347.07	7	3,986.52	7	3,625.54	7	3,264.57	7	2,903.59	7	2,542.62	7	2,181.64
1/4		1/4		1/4	4,672.60	1/4	4,339.59	1/4	3,979.00	1/4	3,618.02	1/4	3,257.05	1/4	2,896.07	1/4	2,535.10	1/4	2,174.12
1/2		1/2		1/2	4,669.08	1/2	4,332.11	1/2	3,971.47	1/2	3,610.50	1/2	3,249.53	1/2	2,888.55	1/2	2,527.58	1/2	2,166.60
3/4		3/4		3/4	4,664.49	3/4	4,324.63	3/4	3,963.95	3/4	3,602.98	3/4	3,242.01	3/4	2,881.03	3/4	2,520.06	3/4	2,159.08
8		8		8	4,659.91	8	4,317.15	8	3,956.43	8	3,595.46	8	3,234.49	8	2,873.51	8	2,512.54	8	2,151.56
1/4		1/4		1/4	4,655.32	1/4	4,309.67	1/4	3,948.91	1/4	3,587.94	1/4	3,226.97	1/4	2,865.99	1/4	2,505.02	1/4	2,144.04
1/2		1/2		1/2	4,650.73	1/2	4,302.19	1/2	3,941.39	1/2	3,580.42	1/2	3,219.44	1/2	2,858.47	1/2	2,497.50	1/2	2,136.52
3/4		3/4		3/4	4,645.07	3/4	4,294.71	3/4	3,933.87	3/4	3,572.90	3/4	3,211.92	3/4	2,850.95	3/4	2,489.98	3/4	2,129.00
9		9		9	4,639.40	9	4,287.23	9	3,926.35	9	3,565.38	9	3,204.40	9	2,843.43	9	2,482.46	9	2,121.48
1/4		1/4		1/4	4,633.74	1/4	4,279.75	1/4	3,918.83	1/4	3,557.86	1/4	3,196.88	1/4	2,835.91	1/4	2,474.94	1/4	2,113.96
1/2		1/2		1/2	4,628.08	1/2	4,272.28	1/2	3,911.31	1/2	3,550.34	1/2	3,189.36	1/2	2,828.39	1/2	2,467.41	1/2	2,106.44
3/4		3/4		3/4	4,621.28	3/4	4,264.76	3/4	3,903.79	3/4	3,542.82	3/4	3,181.84	3/4	2,820.87	3/4	2,459.89	3/4	2,098.92
10		10		10	4,614.49	10	4,257.24	10	3,896.27	10	3,535.30	10	3,174.32	10	2,813.35	10	2,452.37	10	2,091.40
1/4		1/4		1/4	4,607.69	1/4	4,249.72	1/4	3,888.75	1/4	3,527.78	1/4	3,166.80	1/4	2,805.83	1/4	2,444.85	1/4	2,083.88
1/2		1/2		1/2	4,600.89	1/2	4,242.21	1/2	3,881.23	1/2	3,520.26	1/2	3,159.28	1/2	2,798.31	1/2	2,437.33	1/2	2,076.36
3/4		3/4		3/4	4,593.51	3/4	4,234.69	3/4	3,873.71	3/4	3,512.74	3/4	3,151.76	3/4	2,790.79	3/4	2,429.81	3/4	2,068.84
11		11		11	4,586.13	11	4,227.17	11	3,866.19	11	3,505.22	11	3,144.24	11	2,783.27	11	2,422.29	11	2,061.32
1/4		1/4		1/4	4,578.75	1/4	4,219.64	1/4	3,858.67	1/4	3,497.70	1/4	3,136.72	1/4	2,775.75	1/4	2,414.77	1/4	2,053.80
1/2		1/2		1/2	4,571.37	1/2	4,212.12	1/2	3,851.15	1/2	3,490.18	1/2	3,129.20	1/2	2,768.23	1/2	2,407.25	1/2	2,046.28
3/4		3/4		3/4	4,563.90	3/4	4,204.60	3/4	3,843.63	3/4	3,482.66	3/4	3,121.68	3/4	2,760.71	3/4	2,399.73	3/4	2,038.76

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 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3048"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,031.24	0	1,670.26	0	1,312.39	0	959.04	0	613.61	0	253.36	0		0		0		0	
1/4	2,023.72	1/4	1,662.74	1/4	1,304.87	1/4	951.88	1/4	606.31	1/4	245.85	1/4		1/4		1/4		1/4	
1/2	2,016.20	1/2	1,655.22	1/2	1,297.35	1/2	944.71	1/2	599.01	1/2	238.34	1/2		1/2		1/2		1/2	
3/4	2,008.68	3/4	1,647.70	3/4	1,289.83	3/4	937.55	3/4	591.52	3/4	231.02	3/4		3/4		3/4		3/4	
1	2,001.16	1	1,640.18	1	1,282.31	1	930.38	1	584.04	1	223.69	1		1		1		1	
1/4	1,993.64	1/4	1,632.66	1/4	1,274.79	1/4	923.22	1/4	576.55	1/4	216.36	1/4		1/4		1/4		1/4	
1/2	1,986.12	1/2	1,625.14	1/2	1,267.27	1/2	916.05	1/2	569.07	1/2	209.03	1/2		1/2		1/2		1/2	
3/4	1,978.60	3/4	1,617.62	3/4	1,259.75	3/4	908.89	3/4	561.56	3/4	201.73	3/4		3/4		3/4		3/4	
2	1,971.08	2	1,610.10	2	1,252.23	2	901.73	2	554.05	2	194.42	2		2		2		2	
1/4	1,963.55	1/4	1,602.58	1/4	1,244.71	1/4	894.56	1/4	546.54	1/4	187.12	1/4		1/4		1/4		1/4	
1/2	1,956.03	1/2	1,595.06	1/2	1,237.19	1/2	887.40	1/2	539.03	1/2	179.82	1/2		1/2		1/2		1/2	
3/4	1,948.51	3/4	1,587.62	3/4	1,229.67	3/4	880.23	3/4	531.52	3/4	172.52	3/4		3/4		3/4		3/4	
3	1,940.99	3	1,580.18	3	1,222.15	3	873.07	3	524.01	3	165.21	3		3		3		3	
1/4	1,933.47	1/4	1,572.75	1/4	1,214.63	1/4	865.90	1/4	516.50	1/4	157.91	1/4		1/4		1/4		1/4	
1/2	1,925.95	1/2	1,565.31	1/2	1,207.11	1/2	858.74	1/2	508.99	1/2	150.61	1/2		1/2		1/2		1/2	
3/4	1,918.43	3/4	1,557.88	3/4	1,199.59	3/4	851.57	3/4	501.48	3/4	143.32	3/4		3/4		3/4		3/4	
4	1,910.91	4	1,550.46	4	1,192.07	4	844.41	4	493.96	4	136.02	4		4		4		4	
1/4	1,903.39	1/4	1,543.03	1/4	1,184.55	1/4	837.24	1/4	486.44	1/4	128.73	1/4		1/4		1/4		1/4	
1/2	1,895.87	1/2	1,535.60	1/2	1,177.03	1/2	830.07	1/2	478.92	1/2	121.44	1/2		1/2		1/2		1/2	
3/4	1,888.35	3/4	1,528.22	3/4	1,169.51	3/4	823.07	3/4	471.40	3/4	114.17	3/4		3/4		3/4		3/4	
5	1,880.83	5	1,520.84	5	1,161.99	5	816.07	5	463.88	5	106.90	5		5		5		5	
1/4	1,873.31	1/4	1,513.46	1/4	1,154.47	1/4	809.06	1/4	456.36	1/4	99.62	1/4		1/4		1/4		1/4	
1/2	1,865.79	1/2	1,506.08	1/2	1,146.95	1/2	802.06	1/2	448.84	1/2	92.35	1/2		1/2		1/2		1/2	
3/4	1,858.27	3/4	1,498.71	3/4	1,139.43	3/4	795.08	3/4	441.32	3/4	85.61	3/4		3/4		3/4		3/4	
6	1,850.75	6	1,491.34	6	1,131.91	6	788.10	6	433.80	6	78.86	6		6		6		6	
1/4	1,843.23	1/4	1,483.96	1/4	1,124.39	1/4	781.13	1/4	426.27	1/4	72.11	1/4		1/4		1/4		1/4	
1/2	1,835.71	1/2	1,476.59	1/2	1,116.86	1/2	774.15	1/2	418.75	1/2	65.36	1/2		1/2		1/2		1/2	
3/4	1,828.19	3/4	1,469.22	3/4	1,109.65	3/4	766.87	3/4	411.23	3/4	59.77	3/4		3/4		3/4		3/4	
7	1,820.67	7	1,461.84	7	1,102.44	7	759.60	7	403.71	7	54.19	7		7		7		7	
1/4	1,813.15	1/4	1,454.47	1/4	1,095.23	1/4	752.33	1/4	396.19	1/4	48.60	1/4		1/4		1/4		1/4	
1/2	1,805.63	1/2	1,447.10	1/2	1,088.02	1/2	745.06	1/2	388.67	1/2	43.01	1/2		1/2		1/2		1/2	
3/4	1,798.11	3/4	1,439.72	3/4	1,080.85	3/4	737.76	3/4	381.15	3/4	38.67	3/4		3/4		3/4		3/4	
8	1,790.59	8	1,432.35	8	1,073.69	8	730.45	8	373.63	8	34.34	8		8		8		8	
1/4	1,783.07	1/4	1,424.98	1/4	1,066.52	1/4	723.15	1/4	366.11	1/4	30.00	1/4		1/4		1/4		1/4	
1/2	1,775.55	1/2	1,417.60	1/2	1,059.35	1/2	715.84	1/2	358.59	1/2	25.67	1/2		1/2		1/2		1/2	
3/4	1,768.03	3/4	1,410.10	3/4	1,052.19	3/4	708.54	3/4	351.07	3/4		3/4		3/4		3/4		3/4	
9	1,760.51	9	1,402.60	9	1,045.02	9	701.24	9	343.55	9		9		9		9		9	
1/4	1,752.99	1/4	1,395.10	1/4	1,037.85	1/4	693.94	1/4	336.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,745.47	1/2	1,387.60	1/2	1,030.68	1/2	686.63	1/2	328.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,737.95	3/4	1,380.08	3/4	1,023.52	3/4	679.33	3/4	320.99	3/4		3/4		3/4		3/4		3/4	
10	1,730.43	10	1,372.56	10	1,016.35	10	672.03	10	313.47	10		10		10		10		10	
1/4	1,722.91	1/4	1,365.03	1/4	1,009.19	1/4	664.73	1/4	305.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,715.38	1/2	1,357.51	1/2	1,002.03	1/2	657.43	1/2	298.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,707.86	3/4	1,349.99	3/4	994.86	3/4	650.12	3/4	290.92	3/4		3/4		3/4		3/4		3/4	
11	1,700.34	11	1,342.47	11	987.70	11	642.82	11	283.40	11		11		11		11		11	
1/4	1,692.82	1/4	1,334.95	1/4	980.53	1/4	635.52	1/4	275.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,685.30	1/2	1,327.43	1/2	973.37	1/2	628.22	1/2	268.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,677.78	3/4	1,319.91	3/4	966.20	3/4	620.91	3/4	260.87	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2018 CL
CALCULATED: 10/03/2018 CL
PRINTED: 10/04/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 3048"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,771.36	0	3,579.31	0	3,386.39	0	3,192.90	0	2,967.90	0	2,742.40	0	2,405.02
1/4		1/4		1/4		1/4	3,767.37	1/4	3,575.29	1/4	3,382.38	1/4	3,188.29	1/4	2,963.20	1/4	2,737.70	1/4	2,397.54
1/2		1/2		1/2		1/2	3,763.39	1/2	3,571.27	1/2	3,378.36	1/2	3,183.68	1/2	2,958.50	1/2	2,733.01	1/2	2,390.07
3/4		3/4		3/4		3/4	3,759.40	3/4	3,567.25	3/4	3,374.34	3/4	3,179.08	3/4	2,953.81	3/4	2,728.31	3/4	2,382.60
1		1		1		1	3,755.40	1	3,563.23	1	3,370.32	1	3,174.39	1	2,949.11	1	2,723.61	1	2,375.12
1/4		1/4		1/4		1/4	3,751.41	1/4	3,559.21	1/4	3,366.30	1/4	3,169.70	1/4	2,944.42	1/4	2,718.91	1/4	2,367.65
1/2		1/2		1/2		1/2	3,747.41	1/2	3,555.19	1/2	3,362.28	1/2	3,165.01	1/2	2,939.72	1/2	2,714.21	1/2	2,360.17
3/4		3/4		3/4		3/4	3,743.41	3/4	3,551.17	3/4	3,358.26	3/4	3,160.32	3/4	2,935.02	3/4	2,709.51	3/4	2,352.70
2		2		2		2	3,739.42	2	3,547.15	2	3,354.24	2	3,155.63	2	2,930.33	2	2,702.40	2	2,345.22
1/4		1/4		1/4		1/4	3,735.42	1/4	3,543.14	1/4	3,350.22	1/4	3,150.94	1/4	2,925.63	1/4	2,695.30	1/4	2,337.75
1/2		1/2		1/2		1/2	3,731.42	1/2	3,539.12	1/2	3,346.20	1/2	3,146.25	1/2	2,920.94	1/2	2,688.19	1/2	2,330.28
3/4		3/4		3/4		3/4	3,727.42	3/4	3,535.10	3/4	3,342.19	3/4	3,141.56	3/4	2,916.24	3/4	2,681.08	3/4	2,322.80
3		3		3		3	3,723.42	3	3,531.08	3	3,338.17	3	3,136.87	3	2,911.54	3	2,673.63	3	2,315.33
1/4		1/4		1/4		1/4	3,719.43	1/4	3,527.06	1/4	3,334.15	1/4	3,132.19	1/4	2,906.85	1/4	2,666.18	1/4	2,307.85
1/2		1/2		1/2		1/2	3,715.43	1/2	3,523.04	1/2	3,330.13	1/2	3,127.50	1/2	2,902.15	1/2	2,658.73	1/2	2,300.38
3/4		3/4		3/4		3/4	3,711.43	3/4	3,519.02	3/4	3,326.11	3/4	3,122.81	3/4	2,897.46	3/4	2,651.28	3/4	2,292.90
4		4		4		4	3,707.43	4	3,515.00	4	3,322.09	4	3,118.12	4	2,892.76	4	2,643.83	4	2,285.43
1/4		1/4		1/4		1/4	3,703.43	1/4	3,510.98	1/4	3,318.07	1/4	3,113.43	1/4	2,888.06	1/4	2,636.38	1/4	2,277.95
1/2		1/2		1/2		1/2	3,699.43	1/2	3,506.96	1/2	3,314.05	1/2	3,108.74	1/2	2,883.37	1/2	2,628.93	1/2	2,270.48
3/4		3/4		3/4		3/4	3,695.43	3/4	3,502.95	3/4	3,310.03	3/4	3,104.05	3/4	2,878.67	3/4	2,621.48	3/4	2,263.01
5		5		5		5	3,691.44	5	3,498.93	5	3,306.01	5	3,099.36	5	2,873.98	5	2,614.03	5	2,255.53
1/4		1/4		1/4		1/4	3,687.44	1/4	3,494.91	1/4	3,302.00	1/4	3,094.67	1/4	2,869.28	1/4	2,606.58	1/4	2,248.06
1/2		1/2		1/2		1/2	3,683.44	1/2	3,490.89	1/2	3,297.98	1/2	3,089.98	1/2	2,864.58	1/2	2,599.13	1/2	2,240.58
3/4		3/4		3/4		3/4	3,679.44	3/4	3,486.87	3/4	3,293.96	3/4	3,085.29	3/4	2,859.89	3/4	2,591.68	3/4	2,233.11
6		6		6		6	3,675.44	6	3,482.85	6	3,289.94	6	3,080.60	6	2,855.19	6	2,584.23	6	2,225.63
1/4		1/4		1/4		1/4	3,671.44	1/4	3,478.83	1/4	3,285.92	1/4	3,075.90	1/4	2,850.49	1/4	2,576.78	1/4	2,218.16
1/2		1/2		1/2		1/2	3,667.45	1/2	3,474.81	1/2	3,281.90	1/2	3,071.21	1/2	2,845.79	1/2	2,569.32	1/2	2,210.68
3/4		3/4		3/4		3/4	3,663.45	3/4	3,470.79	3/4	3,277.88	3/4	3,066.51	3/4	2,841.09	3/4	2,561.87	3/4	2,203.21
7		7		7	3,817.94	7	3,659.45	7	3,466.77	7	3,273.86	7	3,061.82	7	2,836.39	7	2,554.42	7	2,195.74
1/4		1/4		1/4	3,817.86	1/4	3,655.45	1/4	3,462.76	1/4	3,269.84	1/4	3,057.12	1/4	2,831.69	1/4	2,546.97	1/4	2,188.26
1/2		1/2		1/2	3,817.78	1/2	3,651.45	1/2	3,458.74	1/2	3,265.82	1/2	3,052.42	1/2	2,826.99	1/2	2,539.52	1/2	2,180.79
3/4		3/4		3/4	3,817.70	3/4	3,647.45	3/4	3,454.72	3/4	3,261.81	3/4	3,047.73	3/4	2,822.29	3/4	2,532.07	3/4	2,173.31
8		8		8	3,816.56	8	3,643.46	8	3,450.70	8	3,257.79	8	3,043.03	8	2,817.59	8	2,524.60	8	2,165.82
1/4		1/4		1/4	3,815.41	1/4	3,639.46	1/4	3,446.68	1/4	3,253.77	1/4	3,038.34	1/4	2,812.89	1/4	2,517.13	1/4	2,158.33
1/2		1/2		1/2	3,814.26	1/2	3,635.46	1/2	3,442.66	1/2	3,249.75	1/2	3,033.64	1/2	2,808.20	1/2	2,509.66	1/2	2,150.84
3/4		3/4		3/4	3,813.11	3/4	3,631.46	3/4	3,438.64	3/4	3,245.73	3/4	3,028.94	3/4	2,803.50	3/4	2,502.19	3/4	2,143.36
9		9		9	3,810.89	9	3,627.46	9	3,434.62	9	3,241.71	9	3,024.25	9	2,798.80	9	2,494.71	9	2,135.90
1/4		1/4		1/4	3,808.67	1/4	3,623.46	1/4	3,430.60	1/4	3,237.69	1/4	3,019.55	1/4	2,794.10	1/4	2,487.24	1/4	2,128.45
1/2		1/2		1/2	3,806.45	1/2	3,619.47	1/2	3,426.58	1/2	3,233.67	1/2	3,014.86	1/2	2,789.40	1/2	2,479.76	1/2	2,120.99
3/4		3/4		3/4	3,804.23	3/4	3,615.47	3/4	3,422.57	3/4	3,229.65	3/4	3,010.16	3/4	2,784.70	3/4	2,472.29	3/4	2,113.54
10		10		10	3,800.91	10	3,611.45	10	3,418.55	10	3,225.63	10	3,005.46	10	2,780.00	10	2,464.81	10	2,106.08
1/4		1/4		1/4	3,797.59	1/4	3,607.43	1/4	3,414.53	1/4	3,221.62	1/4	3,000.77	1/4	2,775.30	1/4	2,457.34	1/4	2,098.62
1/2		1/2		1/2	3,794.27	1/2	3,603.42	1/2	3,410.51	1/2	3,217.60	1/2	2,996.07	1/2	2,770.60	1/2	2,449.87	1/2	2,091.15
3/4		3/4		3/4	3,790.94	3/4	3,599.40	3/4	3,406.49	3/4	3,213.58	3/4	2,991.38	3/4	2,765.90	3/4	2,442.39	3/4	2,083.69
11		11		11	3,787.04	11	3,595.38	11	3,402.47	11	3,209.56	11	2,986.68	11	2,761.20	11	2,434.92	11	2,076.20
1/4		1/4		1/4	3,783.14	1/4	3,591.36	1/4	3,398.45	1/4	3,205.54	1/4	2,981.98	1/4	2,756.50	1/4	2,427.44	1/4	2,068.71
1/2		1/2		1/2	3,779.24	1/2	3,587.34	1/2	3,394.43	1/2	3,201.52	1/2	2,977.29	1/2	2,751.80	1/2	2,419.97	1/2	2,061.23
3/4		3/4		3/4	3,775.34	3/4	3,583.33	3/4	3,390.41	3/4	3,197.50	3/4	2,972.59	3/4	2,747.10	3/4	2,412.49	3/4	2,053.74

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 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "EMS 3048"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,046.24	0	1,686.56	0	1,331.19	0	971.90	0	618.70	0	259.93	0		0		0		0	
1/4	2,038.75	1/4	1,679.07	1/4	1,323.70	1/4	964.43	1/4	611.42	1/4	252.45	1/4		1/4		1/4		1/4	
1/2	2,031.26	1/2	1,671.57	1/2	1,316.20	1/2	956.96	1/2	604.15	1/2	244.97	1/2		1/2		1/2		1/2	
3/4	2,023.76	3/4	1,664.08	3/4	1,308.71	3/4	949.49	3/4	596.87	3/4	237.48	3/4		3/4		3/4		3/4	
1	2,016.27	1	1,656.59	1	1,301.22	1	942.02	1	589.41	1	230.18	1		1		1		1	
1/4	2,008.78	1/4	1,649.09	1/4	1,293.72	1/4	934.54	1/4	581.96	1/4	222.88	1/4		1/4		1/4		1/4	
1/2	2,001.28	1/2	1,641.60	1/2	1,286.23	1/2	927.07	1/2	574.50	1/2	215.58	1/2		1/2		1/2		1/2	
3/4	1,993.79	3/4	1,634.11	3/4	1,278.73	3/4	919.60	3/4	567.04	3/4	208.27	3/4		3/4		3/4		3/4	
2	1,986.30	2	1,626.61	2	1,271.24	2	912.13	2	559.56	2	201.00	2		2		2		2	
1/4	1,978.80	1/4	1,619.12	1/4	1,263.75	1/4	904.66	1/4	552.08	1/4	193.72	1/4		1/4		1/4		1/4	
1/2	1,971.31	1/2	1,611.63	1/2	1,256.25	1/2	897.18	1/2	544.59	1/2	186.44	1/2		1/2		1/2		1/2	
3/4	1,963.82	3/4	1,604.13	3/4	1,248.76	3/4	889.71	3/4	537.11	3/4	179.17	3/4		3/4		3/4		3/4	
3	1,956.32	3	1,596.80	3	1,241.27	3	882.24	3	529.63	3	171.89	3		3		3		3	
1/4	1,948.83	1/4	1,589.46	1/4	1,233.77	1/4	874.77	1/4	522.14	1/4	164.62	1/4		1/4		1/4		1/4	
1/2	1,941.34	1/2	1,582.12	1/2	1,226.28	1/2	867.30	1/2	514.66	1/2	157.34	1/2		1/2		1/2		1/2	
3/4	1,933.84	3/4	1,574.79	3/4	1,218.78	3/4	859.82	3/4	507.18	3/4	150.07	3/4		3/4		3/4		3/4	
4	1,926.35	4	1,567.47	4	1,211.29	4	852.35	4	499.68	4	142.80	4		4		4		4	
1/4	1,918.86	1/4	1,560.16	1/4	1,203.80	1/4	844.88	1/4	492.19	1/4	135.53	1/4		1/4		1/4		1/4	
1/2	1,911.36	1/2	1,552.85	1/2	1,196.30	1/2	837.40	1/2	484.70	1/2	128.27	1/2		1/2		1/2		1/2	
3/4	1,903.87	3/4	1,545.53	3/4	1,188.81	3/4	829.93	3/4	477.21	3/4	121.00	3/4		3/4		3/4		3/4	
5	1,896.38	5	1,538.22	5	1,181.32	5	822.62	5	469.71	5	113.75	5		5		5		5	
1/4	1,888.88	1/4	1,530.91	1/4	1,173.82	1/4	815.31	1/4	462.22	1/4	106.51	1/4		1/4		1/4		1/4	
1/2	1,881.39	1/2	1,523.59	1/2	1,166.33	1/2	808.00	1/2	454.72	1/2	99.27	1/2		1/2		1/2		1/2	
3/4	1,873.89	3/4	1,516.28	3/4	1,158.83	3/4	800.69	3/4	447.23	3/4	92.02	3/4		3/4		3/4		3/4	
6	1,866.40	6	1,508.97	6	1,151.34	6	793.40	6	439.74	6	85.30	6		6		6		6	
1/4	1,858.91	1/4	1,501.65	1/4	1,143.85	1/4	786.11	1/4	432.24	1/4	78.58	1/4		1/4		1/4		1/4	
1/2	1,851.41	1/2	1,494.34	1/2	1,136.35	1/2	778.83	1/2	424.75	1/2	71.85	1/2		1/2		1/2		1/2	
3/4	1,843.92	3/4	1,487.03	3/4	1,128.86	3/4	771.54	3/4	417.25	3/4	65.13	3/4		3/4		3/4		3/4	
7	1,836.43	7	1,479.71	7	1,121.38	7	764.25	7	409.76	7	59.56	7		7		7		7	
1/4	1,828.93	1/4	1,472.40	1/4	1,113.91	1/4	756.97	1/4	402.27	1/4	53.99	1/4		1/4		1/4		1/4	
1/2	1,821.44	1/2	1,465.09	1/2	1,106.43	1/2	749.68	1/2	394.77	1/2	48.43	1/2		1/2		1/2		1/2	
3/4	1,813.95	3/4	1,457.77	3/4	1,098.95	3/4	742.39	3/4	387.28	3/4	42.86	3/4		3/4		3/4		3/4	
8	1,806.45	8	1,450.46	8	1,091.48	8	735.12	8	379.79	8	38.54	8		8		8		8	
1/4	1,798.96	1/4	1,443.15	1/4	1,084.00	1/4	727.84	1/4	372.29	1/4	34.22	1/4		1/4		1/4		1/4	
1/2	1,791.47	1/2	1,435.83	1/2	1,076.53	1/2	720.56	1/2	364.80	1/2	29.90	1/2		1/2		1/2		1/2	
3/4	1,783.97	3/4	1,428.52	3/4	1,069.05	3/4	713.28	3/4	357.30	3/4	25.58	3/4		3/4		3/4		3/4	
9	1,776.48	9	1,421.05	9	1,061.58	9	706.01	9	349.81	9		9		9		9		9	
1/4	1,768.99	1/4	1,413.58	1/4	1,054.10	1/4	698.73	1/4	342.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,761.49	1/2	1,406.11	1/2	1,046.63	1/2	691.46	1/2	334.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,754.00	3/4	1,398.64	3/4	1,039.15	3/4	684.18	3/4	327.33	3/4		3/4		3/4		3/4		3/4	
10	1,746.51	10	1,391.14	10	1,031.68	10	676.90	10	319.83	10		10		10		10		10	
1/4	1,739.01	1/4	1,383.65	1/4	1,024.21	1/4	669.63	1/4	312.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,731.52	1/2	1,376.15	1/2	1,016.74	1/2	662.35	1/2	304.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,724.03	3/4	1,368.66	3/4	1,009.26	3/4	655.08	3/4	297.35	3/4		3/4		3/4		3/4		3/4	
11	1,716.53	11	1,361.17	11	1,001.79	11	647.80	11	289.87	11		11		11		11		11	
1/4	1,709.04	1/4	1,353.67	1/4	994.32	1/4	640.53	1/4	282.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,701.55	1/2	1,346.18	1/2	986.85	1/2	633.25	1/2	274.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,694.05	3/4	1,338.69	3/4	979.38	3/4	625.97	3/4	267.41	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2018 CL
CALCULATED: 10/03/2018 CL
PRINTED: 10/04/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 3048"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	3,741.29	0	3,549.01	0	3,355.89	0	3,161.60	0	2,936.42	0	2,710.84	0	2,371.35
1/4		1/4		1/4		1/4	3,737.30	1/4	3,544.99	1/4	3,351.87	1/4	3,157.00	1/4	2,931.72	1/4	2,706.13	1/4	2,363.92
1/2		1/2		1/2		1/2	3,733.31	1/2	3,540.96	1/2	3,347.84	1/2	3,152.39	1/2	2,927.03	1/2	2,701.43	1/2	2,356.48
3/4		3/4		3/4		3/4	3,729.31	3/4	3,536.94	3/4	3,343.82	3/4	3,147.70	3/4	2,922.33	3/4	2,696.73	3/4	2,349.04
1		1		1		1	3,725.31	1	3,532.92	1	3,339.80	1	3,143.01	1	2,917.63	1	2,692.03	1	2,341.61
1/4		1/4		1/4		1/4	3,721.31	1/4	3,528.89	1/4	3,335.77	1/4	3,138.32	1/4	2,912.93	1/4	2,687.33	1/4	2,334.17
1/2		1/2		1/2		1/2	3,717.31	1/2	3,524.87	1/2	3,331.75	1/2	3,133.62	1/2	2,908.23	1/2	2,682.63	1/2	2,326.74
3/4		3/4		3/4		3/4	3,713.31	3/4	3,520.85	3/4	3,327.73	3/4	3,128.93	3/4	2,903.54	3/4	2,675.52	3/4	2,319.30
2		2		2		2	3,709.31	2	3,516.82	2	3,323.70	2	3,124.24	2	2,898.84	2	2,668.41	2	2,311.87
1/4		1/4		1/4		1/4	3,705.30	1/4	3,512.80	1/4	3,319.68	1/4	3,119.55	1/4	2,894.14	1/4	2,661.30	1/4	2,304.43
1/2		1/2		1/2		1/2	3,701.30	1/2	3,508.78	1/2	3,315.66	1/2	3,114.86	1/2	2,889.44	1/2	2,654.19	1/2	2,297.00
3/4		3/4		3/4		3/4	3,697.30	3/4	3,504.75	3/4	3,311.64	3/4	3,110.17	3/4	2,884.75	3/4	2,646.74	3/4	2,289.56
3		3		3		3	3,693.30	3	3,500.73	3	3,307.61	3	3,105.48	3	2,880.05	3	2,639.29	3	2,282.13
1/4		1/4		1/4		1/4	3,689.29	1/4	3,496.71	1/4	3,303.59	1/4	3,100.78	1/4	2,875.35	1/4	2,631.84	1/4	2,274.69
1/2		1/2		1/2		1/2	3,685.29	1/2	3,492.68	1/2	3,299.57	1/2	3,096.09	1/2	2,870.65	1/2	2,624.38	1/2	2,267.26
3/4		3/4		3/4		3/4	3,681.29	3/4	3,488.66	3/4	3,295.54	3/4	3,091.40	3/4	2,865.95	3/4	2,616.93	3/4	2,259.82
4		4		4		4	3,677.28	4	3,484.64	4	3,291.52	4	3,086.71	4	2,861.26	4	2,609.48	4	2,252.39
1/4		1/4		1/4		1/4	3,673.28	1/4	3,480.61	1/4	3,287.50	1/4	3,082.02	1/4	2,856.56	1/4	2,602.03	1/4	2,244.95
1/2		1/2		1/2		1/2	3,669.28	1/2	3,476.59	1/2	3,283.47	1/2	3,077.33	1/2	2,851.86	1/2	2,594.57	1/2	2,237.52
3/4		3/4		3/4		3/4	3,665.28	3/4	3,472.57	3/4	3,279.45	3/4	3,072.64	3/4	2,847.16	3/4	2,587.14	3/4	2,230.08
5		5		5		5	3,661.27	5	3,468.54	5	3,275.43	5	3,067.95	5	2,842.46	5	2,579.71	5	2,222.65
1/4		1/4		1/4		1/4	3,657.27	1/4	3,464.52	1/4	3,271.40	1/4	3,063.25	1/4	2,837.77	1/4	2,572.28	1/4	2,215.21
1/2		1/2		1/2		1/2	3,653.27	1/2	3,460.50	1/2	3,267.38	1/2	3,058.56	1/2	2,833.07	1/2	2,564.85	1/2	2,207.77
3/4		3/4		3/4		3/4	3,649.27	3/4	3,456.47	3/4	3,263.36	3/4	3,053.87	3/4	2,828.37	3/4	2,557.43	3/4	2,200.32
6		6		6		6	3,645.26	6	3,452.45	6	3,259.33	6	3,049.17	6	2,823.67	6	2,550.00	6	2,192.87
1/4		1/4		1/4		1/4	3,641.26	1/4	3,448.43	1/4	3,255.31	1/4	3,044.47	1/4	2,818.97	1/4	2,542.57	1/4	2,185.42
1/2		1/2		1/2		1/2	3,637.26	1/2	3,444.40	1/2	3,251.29	1/2	3,039.78	1/2	2,814.26	1/2	2,535.14	1/2	2,177.97
3/4		3/4		3/4	3,791.92	3/4	3,633.26	3/4	3,440.38	3/4	3,247.26	3/4	3,035.08	3/4	2,809.56	3/4	2,527.72	3/4	2,170.52
7		7		7	3,791.84	7	3,629.25	7	3,436.36	7	3,243.24	7	3,030.38	7	2,804.86	7	2,520.29	7	2,163.07
1/4		1/4		1/4	3,791.76	1/4	3,625.25	1/4	3,432.33	1/4	3,239.22	1/4	3,025.68	1/4	2,800.16	1/4	2,512.86	1/4	2,155.61
1/2		1/2		1/2	3,791.68	1/2	3,621.25	1/2	3,428.31	1/2	3,235.19	1/2	3,020.98	1/2	2,795.46	1/2	2,505.43	1/2	2,148.16
3/4		3/4		3/4	3,790.53	3/4	3,617.25	3/4	3,424.29	3/4	3,231.17	3/4	3,016.29	3/4	2,790.76	3/4	2,497.99	3/4	2,140.69
8		8		8	3,789.38	8	3,613.24	8	3,420.26	8	3,227.15	8	3,011.59	8	2,786.06	8	2,490.54	8	2,133.22
1/4		1/4		1/4	3,788.23	1/4	3,609.24	1/4	3,416.24	1/4	3,223.12	1/4	3,006.89	1/4	2,781.35	1/4	2,483.09	1/4	2,125.76
1/2		1/2		1/2	3,787.08	1/2	3,605.24	1/2	3,412.22	1/2	3,219.10	1/2	3,002.19	1/2	2,776.65	1/2	2,475.64	1/2	2,118.29
3/4		3/4		3/4	3,784.86	3/4	3,601.24	3/4	3,408.19	3/4	3,215.08	3/4	2,997.49	3/4	2,771.95	3/4	2,468.19	3/4	2,110.86
9		9		9	3,782.64	9	3,597.23	9	3,404.17	9	3,211.05	9	2,992.80	9	2,767.25	9	2,460.74	9	2,103.42
1/4		1/4		1/4	3,780.41	1/4	3,593.23	1/4	3,400.15	1/4	3,207.03	1/4	2,988.10	1/4	2,762.55	1/4	2,453.29	1/4	2,095.99
1/2		1/2		1/2	3,778.19	1/2	3,589.23	1/2	3,396.12	1/2	3,203.01	1/2	2,983.40	1/2	2,757.85	1/2	2,445.84	1/2	2,088.56
3/4		3/4		3/4	3,774.86	3/4	3,585.21	3/4	3,392.10	3/4	3,198.98	3/4	2,978.70	3/4	2,753.15	3/4	2,438.39	3/4	2,081.12
10		10		10	3,771.54	10	3,581.19	10	3,388.08	10	3,194.96	10	2,974.01	10	2,748.45	10	2,430.93	10	2,073.68
1/4		1/4		1/4	3,768.21	1/4	3,577.17	1/4	3,384.05	1/4	3,190.94	1/4	2,969.31	1/4	2,743.74	1/4	2,423.48	1/4	2,066.24
1/2		1/2		1/2	3,764.89	1/2	3,573.15	1/2	3,380.03	1/2	3,186.91	1/2	2,964.61	1/2	2,739.04	1/2	2,416.03	1/2	2,058.80
3/4		3/4		3/4	3,760.98	3/4	3,569.13	3/4	3,376.01	3/4	3,182.89	3/4	2,959.91	3/4	2,734.34	3/4	2,408.58	3/4	2,051.33
11		11		11	3,757.08	11	3,565.10	11	3,371.98	11	3,178.87	11	2,955.21	11	2,729.64	11	2,401.13	11	2,043.86
1/4		1/4		1/4	3,753.17	1/4	3,561.08	1/4	3,367.96	1/4	3,174.84	1/4	2,950.52	1/4	2,724.94	1/4	2,393.68	1/4	2,036.39
1/2		1/2		1/2	3,749.27	1/2	3,557.06	1/2	3,363.94	1/2	3,170.82	1/2	2,945.82	1/2	2,720.24	1/2	2,386.23	1/2	2,028.92
3/4		3/4		3/4	3,745.28	3/4	3,553.03	3/4	3,359.91	3/4	3,166.21	3/4	2,941.12	3/4	2,715.54	3/4	2,378.79	3/4	2,021.45

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 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 3048"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,013.98	0	1,655.33	0	1,300.99	0	951.43	0	610.13	0	252.07	0		0		0		0	
1/4	2,006.51	1/4	1,647.86	1/4	1,293.51	1/4	944.39	1/4	602.87	1/4	244.61	1/4		1/4		1/4		1/4	
1/2	1,999.03	1/2	1,640.38	1/2	1,286.04	1/2	937.35	1/2	595.61	1/2	237.14	1/2		1/2		1/2		1/2	
3/4	1,991.56	3/4	1,632.91	3/4	1,278.57	3/4	930.31	3/4	588.18	3/4	229.86	3/4		3/4		3/4		3/4	
1	1,984.09	1	1,625.44	1	1,271.10	1	923.28	1	580.74	1	222.58	1		1		1		1	
1/4	1,976.62	1/4	1,617.97	1/4	1,263.62	1/4	916.24	1/4	573.30	1/4	215.29	1/4		1/4		1/4		1/4	
1/2	1,969.15	1/2	1,610.50	1/2	1,256.15	1/2	909.20	1/2	565.86	1/2	208.01	1/2		1/2		1/2		1/2	
3/4	1,961.67	3/4	1,603.02	3/4	1,248.68	3/4	902.16	3/4	558.40	3/4	200.75	3/4		3/4		3/4		3/4	
2	1,954.20	2	1,595.55	2	1,241.21	2	895.12	2	550.93	2	193.50	2		2		2		2	
1/4	1,946.73	1/4	1,588.08	1/4	1,233.73	1/4	888.09	1/4	543.47	1/4	186.24	1/4		1/4		1/4		1/4	
1/2	1,939.26	1/2	1,580.61	1/2	1,226.26	1/2	881.05	1/2	536.01	1/2	178.98	1/2		1/2		1/2		1/2	
3/4	1,931.79	3/4	1,573.29	3/4	1,218.79	3/4	874.01	3/4	528.54	3/4	171.72	3/4		3/4		3/4		3/4	
3	1,924.32	3	1,565.98	3	1,211.32	3	866.97	3	521.08	3	164.47	3		3		3		3	
1/4	1,916.84	1/4	1,558.66	1/4	1,203.85	1/4	859.93	1/4	513.61	1/4	157.21	1/4		1/4		1/4		1/4	
1/2	1,909.37	1/2	1,551.35	1/2	1,196.37	1/2	852.90	1/2	506.15	1/2	149.96	1/2		1/2		1/2		1/2	
3/4	1,901.90	3/4	1,544.06	3/4	1,188.90	3/4	845.86	3/4	498.68	3/4	142.71	3/4		3/4		3/4		3/4	
4	1,894.43	4	1,536.77	4	1,181.43	4	838.81	4	491.20	4	135.46	4		4		4		4	
1/4	1,886.96	1/4	1,529.47	1/4	1,173.96	1/4	831.77	1/4	483.73	1/4	128.21	1/4		1/4		1/4		1/4	
1/2	1,879.48	1/2	1,522.18	1/2	1,166.48	1/2	824.73	1/2	476.25	1/2	120.96	1/2		1/2		1/2		1/2	
3/4	1,872.01	3/4	1,514.89	3/4	1,159.01	3/4	817.86	3/4	468.78	3/4	113.74	3/4		3/4		3/4		3/4	
5	1,864.54	5	1,507.60	5	1,151.54	5	810.98	5	461.31	5	106.51	5		5		5		5	
1/4	1,857.07	1/4	1,500.31	1/4	1,144.07	1/4	804.11	1/4	453.83	1/4	99.29	1/4		1/4		1/4		1/4	
1/2	1,849.60	1/2	1,493.01	1/2	1,136.59	1/2	797.23	1/2	446.36	1/2	92.06	1/2		1/2		1/2		1/2	
3/4	1,842.12	3/4	1,485.72	3/4	1,129.12	3/4	790.33	3/4	438.88	3/4	85.34	3/4		3/4		3/4		3/4	
6	1,834.65	6	1,478.43	6	1,121.65	6	783.44	6	431.41	6	78.61	6		6		6		6	
1/4	1,827.18	1/4	1,471.14	1/4	1,114.18	1/4	776.54	1/4	423.93	1/4	71.89	1/4		1/4		1/4		1/4	
1/2	1,819.71	1/2	1,463.85	1/2	1,106.71	1/2	769.64	1/2	416.46	1/2	65.17	1/2		1/2		1/2		1/2	
3/4	1,812.24	3/4	1,456.55	3/4	1,099.57	3/4	762.42	3/4	408.98	3/4	59.59	3/4		3/4		3/4		3/4	
7	1,804.76	7	1,449.26	7	1,092.43	7	755.20	7	401.51	7	54.02	7		7		7		7	
1/4	1,797.29	1/4	1,441.97	1/4	1,085.30	1/4	747.98	1/4	394.03	1/4	48.45	1/4		1/4		1/4		1/4	
1/2	1,789.82	1/2	1,434.68	1/2	1,078.16	1/2	740.76	1/2	386.56	1/2	42.88	1/2		1/2		1/2		1/2	
3/4	1,782.35	3/4	1,427.39	3/4	1,071.11	3/4	733.50	3/4	379.08	3/4	38.56	3/4		3/4		3/4		3/4	
8	1,774.88	8	1,420.09	8	1,064.07	8	726.24	8	371.61	8	34.24	8		8		8		8	
1/4	1,767.41	1/4	1,412.80	1/4	1,057.02	1/4	718.98	1/4	364.13	1/4	29.92	1/4		1/4		1/4		1/4	
1/2	1,759.93	1/2	1,405.51	1/2	1,049.97	1/2	711.72	1/2	356.66	1/2	25.59	1/2		1/2		1/2		1/2	
3/4	1,752.46	3/4	1,398.06	3/4	1,042.93	3/4	704.47	3/4	349.18	3/4		3/4		3/4		3/4		3/4	
9	1,744.99	9	1,390.61	9	1,035.89	9	697.21	9	341.71	9		9		9		9		9	
1/4	1,737.52	1/4	1,383.16	1/4	1,028.85	1/4	689.95	1/4	334.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,730.05	1/2	1,375.71	1/2	1,021.81	1/2	682.70	1/2	326.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.57	3/4	1,368.24	3/4	1,014.77	3/4	675.44	3/4	319.28	3/4		3/4		3/4		3/4		3/4	
10	1,715.10	10	1,360.76	10	1,007.73	10	668.18	10	311.81	10		10		10		10		10	
1/4	1,707.63	1/4	1,353.29	1/4	1,000.70	1/4	660.93	1/4	304.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.16	1/2	1,345.82	1/2	993.66	1/2	653.67	1/2	296.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,692.69	3/4	1,338.35	3/4	986.62	3/4	646.41	3/4	289.39	3/4		3/4		3/4		3/4		3/4	
11	1,685.21	11	1,330.87	11	979.58	11	639.15	11	281.93	11		11		11		11		11	
1/4	1,677.74	1/4	1,323.40	1/4	972.54	1/4	631.90	1/4	274.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,670.27	1/2	1,315.93	1/2	965.51	1/2	624.64	1/2	267.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,662.80	3/4	1,308.46	3/4	958.47	3/4	617.38	3/4	259.53	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2018 CL
CALCULATED: 10/03/2018 CL
PRINTED: 10/04/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2018

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