



BARGE "EMS 370"

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

(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 - 00-1/2"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-06"

March 7, 2009

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 370"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/2"

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	4,268.39	0	3,990.65	0	3,712.46	0	3,412.71	0	3,092.40	0	2,761.29	0	2,430.14	0	2,098.99	0	1,767.85		
1/4		1/4	4,263.62	1/4	3,985.06	1/4	3,706.45	1/4	3,406.25	1/4	3,085.52	1/4	2,754.39	1/4	2,423.24	1/4	2,092.09	1/4	1,760.95		
1/2		1/2	4,258.85	1/2	3,979.47	1/2	3,700.44	1/2	3,399.80	1/2	3,078.64	1/2	2,747.49	1/2	2,416.34	1/2	2,085.19	1/2	1,754.05		
3/4		3/4	4,252.36	3/4	3,973.85	3/4	3,694.40	3/4	3,393.30	3/4	3,071.74	3/4	2,740.59	3/4	2,409.44	3/4	2,078.30	3/4	1,747.15		
1		1	4,245.86	1	3,968.23	1	3,688.36	1	3,386.81	1	3,064.84	1	2,733.69	1	2,402.54	1	2,071.40	1	1,740.25		
1/4		1/4	4,239.37	1/4	3,962.61	1/4	3,682.32	1/4	3,380.31	1/4	3,057.94	1/4	2,726.79	1/4	2,395.65	1/4	2,064.50	1/4	1,733.35		
1/2		1/2	4,232.88	1/2	3,956.99	1/2	3,676.28	1/2	3,373.81	1/2	3,051.04	1/2	2,719.89	1/2	2,388.75	1/2	2,057.60	1/2	1,726.45		
3/4		3/4	4,226.38	3/4	3,951.33	3/4	3,670.20	3/4	3,367.29	3/4	3,044.14	3/4	2,712.99	3/4	2,381.85	3/4	2,050.70	3/4	1,719.55		
2		2	4,219.89	2	3,945.67	2	3,664.12	2	3,360.76	2	3,037.24	2	2,706.10	2	2,374.95	2	2,043.80	2	1,712.65		
1/4		1/4	4,213.40	1/4	3,940.00	1/4	3,658.04	1/4	3,354.24	1/4	3,030.34	1/4	2,699.20	1/4	2,368.05	1/4	2,036.90	1/4	1,705.76		
1/2		1/2	4,206.90	1/2	3,934.34	1/2	3,651.96	1/2	3,347.71	1/2	3,023.45	1/2	2,692.30	1/2	2,361.15	1/2	2,030.00	1/2	1,698.86		
3/4		3/4	4,200.41	3/4	3,928.65	3/4	3,645.81	3/4	3,341.15	3/4	3,016.55	3/4	2,685.40	3/4	2,354.25	3/4	2,023.10	3/4	1,691.96		
3		3	4,193.91	3	3,922.96	3	3,639.66	3	3,334.58	3	3,009.65	3	2,678.50	3	2,347.35	3	2,016.21	3	1,685.06		
1/4		1/4	4,187.42	1/4	3,917.27	1/4	3,633.52	1/4	3,328.01	1/4	3,002.75	1/4	2,671.60	1/4	2,340.45	1/4	2,009.31	1/4	1,678.16		
1/2		1/2	4,180.93	1/2	3,911.57	1/2	3,627.37	1/2	3,321.45	1/2	2,995.85	1/2	2,664.70	1/2	2,333.56	1/2	2,002.41	1/2	1,671.26		
3/4		3/4	4,174.47	3/4	3,905.84	3/4	3,621.18	3/4	3,314.84	3/4	2,988.95	3/4	2,657.80	3/4	2,326.66	3/4	1,995.51	3/4	1,664.36		
4		4	4,168.01	4	3,900.10	4	3,615.00	4	3,308.24	4	2,982.05	4	2,650.90	4	2,319.76	4	1,988.61	4	1,657.46		
1/4		1/4	4,161.55	1/4	3,894.37	1/4	3,608.81	1/4	3,301.63	1/4	2,975.15	1/4	2,644.01	1/4	2,312.86	1/4	1,981.71	1/4	1,650.56		
1/2		1/2	4,155.09	1/2	3,888.63	1/2	3,602.62	1/2	3,295.03	1/2	2,968.25	1/2	2,637.11	1/2	2,305.96	1/2	1,974.81	1/2	1,643.67		
3/4		3/4	4,148.63	3/4	3,882.87	3/4	3,596.41	3/4	3,288.39	3/4	2,961.36	3/4	2,630.21	3/4	2,299.06	3/4	1,967.91	3/4	1,636.77		
5		5	4,142.17	5	3,877.10	5	3,590.19	5	3,281.75	5	2,954.46	5	2,623.31	5	2,292.16	5	1,961.01	5	1,629.87		
1/4		1/4	4,135.71	1/4	3,871.34	1/4	3,583.97	1/4	3,275.11	1/4	2,947.56	1/4	2,616.41	1/4	2,285.26	1/4	1,954.12	1/4	1,622.97		
1/2		1/2	4,129.25	1/2	3,865.58	1/2	3,577.75	1/2	3,268.48	1/2	2,940.66	1/2	2,609.51	1/2	2,278.36	1/2	1,947.22	1/2	1,616.07		
3/4		3/4	4,122.79	3/4	3,859.79	3/4	3,571.49	3/4	3,261.80	3/4	2,933.76	3/4	2,602.61	3/4	2,271.47	3/4	1,940.32	3/4	1,609.17		
6		6	4,116.33	6	3,854.01	6	3,565.23	6	3,255.12	6	2,926.86	6	2,595.71	6	2,264.57	6	1,933.42	6	1,602.27		
1/4		1/4	4,109.87	1/4	3,848.22	1/4	3,558.97	1/4	3,248.44	1/4	2,919.96	1/4	2,588.81	1/4	2,257.67	1/4	1,926.52	1/4	1,595.37		
1/2		1/2	4,103.41	1/2	3,842.43	1/2	3,552.71	1/2	3,241.77	1/2	2,913.06	1/2	2,581.92	1/2	2,250.77	1/2	1,919.62	1/2	1,588.47		
3/4		3/4	4,098.40	3/4	3,836.61	3/4	3,546.42	3/4	3,235.06	3/4	2,906.16	3/4	2,575.02	3/4	2,243.87	3/4	1,912.72	3/4	1,581.58		
7		7	4,093.39	7	3,830.78	7	3,540.13	7	3,228.35	7	2,899.27	7	2,568.12	7	2,236.97	7	1,905.82	7	1,574.68		
1/4		1/4	4,088.38	1/4	3,824.96	1/4	3,533.84	1/4	3,221.64	1/4	2,892.37	1/4	2,561.22	1/4	2,230.07	1/4	1,898.92	1/4	1,567.78		
1/2		1/2	4,083.37	1/2	3,819.13	1/2	3,527.56	1/2	3,214.93	1/2	2,885.47	1/2	2,554.32	1/2	2,223.17	1/2	1,892.03	1/2	1,560.88		
3/4		3/4	4,078.33	3/4	3,813.28	3/4	3,521.24	3/4	3,208.18	3/4	2,878.57	3/4	2,547.42	3/4	2,216.27	3/4	1,885.13	3/4	1,553.98		
8		8	4,073.28	8	3,807.42	8	3,514.91	8	3,201.43	8	2,871.67	8	2,540.52	8	2,209.37	8	1,878.23	8	1,547.08		
1/4		1/4	4,068.24	1/4	3,801.56	1/4	3,508.59	1/4	3,194.68	1/4	2,864.77	1/4	2,533.62	1/4	2,202.48	1/4	1,871.33	1/4	1,540.18		
1/2		1/2	4,063.20	1/2	3,795.70	1/2	3,502.27	1/2	3,187.93	1/2	2,857.87	1/2	2,526.72	1/2	2,195.58	1/2	1,864.43	1/2	1,533.28		
3/4		3/4	4,058.12	3/4	3,789.81	3/4	3,495.91	3/4	3,181.15	3/4	2,850.97	3/4	2,519.83	3/4	2,188.68	3/4	1,857.53	3/4	1,526.38		
9		9	4,053.03	9	3,783.91	9	3,489.55	9	3,174.37	9	2,844.07	9	2,512.93	9	2,181.78	9	1,850.63	9	1,519.48		
1/4		1/4	4,047.95	1/4	3,778.01	1/4	3,483.19	1/4	3,167.59	1/4	2,837.17	1/4	2,506.03	1/4	2,174.88	1/4	1,843.73	1/4	1,512.59		
1/2		1/2	4,042.86	1/2	3,772.11	1/2	3,476.83	1/2	3,160.81	1/2	2,830.28	1/2	2,499.13	1/2	2,167.98	1/2	1,836.83	1/2	1,505.69		
3/4		3/4	4,037.75	3/4	3,766.19	3/4	3,470.45	3/4	3,153.99	3/4	2,823.38	3/4	2,492.23	3/4	2,161.08	3/4	1,829.94	3/4	1,498.79		
10		10	4,032.64	10	3,760.26	10	3,464.07	10	3,147.18	10	2,816.48	10	2,485.33	10	2,154.18	10	1,823.04	10	1,491.89		
1/4		1/4	4,027.52	1/4	3,754.33	1/4	3,457.69	1/4	3,140.37	1/4	2,809.58	1/4	2,478.43	1/4	2,147.28	1/4	1,816.14	1/4	1,484.99		
1/2		1/2	4,022.41	1/2	3,748.40	1/2	3,451.30	1/2	3,133.56	1/2	2,802.68	1/2	2,471.53	1/2	2,140.39	1/2	1,809.24	1/2	1,478.09		
3/4		3/4	4,017.27	3/4	3,742.42	3/4	3,444.88	3/4	3,126.71	3/4	2,795.78	3/4	2,464.63	3/4	2,133.49	3/4	1,802.34	3/4	1,471.19		
11		11	4,012.12	11	3,736.44	11	3,438.46	11	3,119.86	11	2,788.88	11	2,457.74	11	2,126.59	11	1,795.44	11	1,464.29		
1/4		1/4	4,006.98	1/4	3,730.46	1/4	3,432.04	1/4	3,113.01	1/4	2,781.98	1/4	2,450.84	1/4	2,119.69	1/4	1,788.54	1/4	1,457.39		
1/2		1/2	4,277.93	1/2	4,001.83	1/2	3,724.48	1/2	3,425.61	1/2	3,106.16	1/2	2,775.08	1/2	2,443.94	1/2	2,112.79	1/2	1,781.64	1/2	1,450.50
3/4		3/4	4,273.16	3/4	3,996.24	3/4	3,718.47	3/4	3,419.16	3/4	3,099.28	3/4	2,768.19	3/4	2,437.04	3/4	2,105.89	3/4	1,774.74	3/4	1,443.60

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 44'-06" 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 370"

1 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	1,436.70	0	1,106.91	0	792.97	0	499.16	0	225.15	0		0		0		0		0	
1/4	1,429.80	1/4	1,100.17	1/4	786.63	1/4	493.27	1/4	219.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,422.90	1/2	1,093.42	1/2	780.29	1/2	487.39	1/2	214.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,416.00	3/4	1,086.71	3/4	773.99	3/4	481.53	3/4	208.61	3/4		3/4		3/4		3/4		3/4	
1	1,409.10	1	1,079.99	1	767.69	1	475.68	1	203.12	1		1		1		1		1	
1/4	1,402.20	1/4	1,073.28	1/4	761.40	1/4	469.82	1/4	197.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,395.30	1/2	1,066.57	1/2	755.10	1/2	463.97	1/2	192.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,388.41	3/4	1,059.90	3/4	748.83	3/4	458.14	3/4	186.67	3/4		3/4		3/4		3/4		3/4	
2	1,381.51	2	1,053.23	2	742.56	2	452.32	2	181.21	2		2		2		2		2	
1/4	1,374.61	1/4	1,046.56	1/4	736.30	1/4	446.49	1/4	175.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,367.71	1/2	1,039.89	1/2	730.03	1/2	440.67	1/2	170.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,360.81	3/4	1,033.25	3/4	723.79	3/4	434.87	3/4	164.85	3/4		3/4		3/4		3/4		3/4	
3	1,353.91	3	1,026.61	3	717.55	3	429.08	3	159.42	3		3		3		3		3	
1/4	1,347.01	1/4	1,019.97	1/4	711.31	1/4	423.28	1/4	153.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,340.11	1/2	1,013.33	1/2	705.08	1/2	417.49	1/2	148.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,333.21	3/4	1,006.72	3/4	698.87	3/4	411.73	3/4	143.17	3/4		3/4		3/4		3/4		3/4	
4	1,326.32	4	1,000.11	4	692.66	4	405.97	4	137.77	4		4		4		4		4	
1/4	1,319.42	1/4	993.50	1/4	686.46	1/4	400.21	1/4	132.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,312.52	1/2	986.89	1/2	680.25	1/2	394.44	1/2	126.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,305.62	3/4	980.31	3/4	674.08	3/4	388.71	3/4	121.63	3/4		3/4		3/4		3/4		3/4	
5	1,298.72	5	973.73	5	667.91	5	382.97	5	116.28	5		5		5		5		5	
1/4	1,291.82	1/4	967.16	1/4	661.74	1/4	377.24	1/4	110.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,284.92	1/2	960.58	1/2	655.56	1/2	371.51	1/2	105.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,278.02	3/4	954.04	3/4	649.42	3/4	365.81	3/4	100.26	3/4		3/4		3/4		3/4		3/4	
6	1,271.12	6	947.49	6	643.29	6	360.11	6	94.94	6		6		6		6		6	
1/4	1,264.23	1/4	940.95	1/4	637.15	1/4	354.41	1/4	89.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,257.33	1/2	934.41	1/2	631.01	1/2	348.71	1/2	84.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,250.43	3/4	927.91	3/4	624.91	3/4	343.04	3/4	79.00	3/4		3/4		3/4		3/4		3/4	
7	1,243.53	7	921.41	7	618.81	7	337.37	7	73.71	7		7		7		7		7	
1/4	1,236.63	1/4	914.91	1/4	612.72	1/4	331.70	1/4	68.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,229.73	1/2	908.42	1/2	606.62	1/2	326.03	1/2	63.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,222.83	3/4	901.95	3/4	600.59	3/4	320.37	3/4	57.87	3/4		3/4		3/4		3/4		3/4	
8	1,215.93	8	895.48	8	594.55	8	314.70	8	52.61	8		8		8		8		8	
1/4	1,209.03	1/4	889.01	1/4	588.52	1/4	309.04	1/4	47.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,202.14	1/2	882.54	1/2	582.49	1/2	303.37	1/2	42.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,195.29	3/4	876.10	3/4	576.49	3/4	297.74	3/4	37.72	3/4		3/4		3/4		3/4		3/4	
9	1,188.45	9	869.66	9	570.49	9	292.11	9	33.36	9		9		9		9		9	
1/4	1,181.61	1/4	863.22	1/4	564.50	1/4	286.48	1/4	28.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,174.77	1/2	856.78	1/2	558.50	1/2	280.85	1/2	24.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,167.96	3/4	850.37	3/4	552.54	3/4	275.25	3/4	22.02	3/4		3/4		3/4		3/4		3/4	
10	1,161.15	10	843.97	10	546.57	10	269.65	10	19.41	10		10		10		10		10	
1/4	1,154.33	1/4	837.56	1/4	540.61	1/4	264.05	1/4	16.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,147.52	1/2	831.15	1/2	534.65	1/2	258.45	1/2	14.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,140.74	3/4	824.78	3/4	528.72	3/4	252.89	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,133.96	11	818.40	11	522.78	11	247.32	11		11		11		11		11		11	
1/4	1,127.18	1/4	812.03	1/4	516.85	1/4	241.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,120.40	1/2	805.65	1/2	510.92	1/2	236.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,113.66	3/4	799.31	3/4	505.04	3/4	230.67	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/06/2009 CL - SW
CALCULATED: 03/07/2009 CL
PRINTED: 03/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2009

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



BARGE "EMS 370"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	0	4,274.14	0	3,997.24	0	3,719.50	0	3,420.20	0	3,100.33	0	2,769.24	0	2,438.09	0	2,106.94	0	1,775.79
1/4	1/4	1/4	4,269.37	1/4	3,991.65	1/4	3,713.49	1/4	3,413.75	1/4	3,093.45	1/4	2,762.34	1/4	2,431.19	1/4	2,100.04	1/4	1,768.90
1/2	1/2	1/2	4,264.60	1/2	3,986.06	1/2	3,707.48	1/2	3,407.30	1/2	3,086.57	1/2	2,755.44	1/2	2,424.29	1/2	2,093.14	1/2	1,762.00
3/4	3/4	3/4	4,259.83	3/4	3,980.47	3/4	3,701.47	3/4	3,400.84	3/4	3,079.69	3/4	2,748.54	3/4	2,417.39	3/4	2,086.24	3/4	1,755.10
1	1	1	4,253.33	1	3,974.85	1	3,695.43	1	3,394.35	1	3,072.79	1	2,741.64	1	2,410.49	1	2,079.35	1	1,748.20
1/4	1/4	1/4	4,246.84	1/4	3,969.23	1/4	3,689.39	1/4	3,387.85	1/4	3,065.89	1/4	2,734.74	1/4	2,403.59	1/4	2,072.45	1/4	1,741.30
1/2	1/2	1/2	4,240.35	1/2	3,963.61	1/2	3,683.35	1/2	3,381.35	1/2	3,058.99	1/2	2,727.84	1/2	2,396.70	1/2	2,065.55	1/2	1,734.40
3/4	3/4	3/4	4,233.85	3/4	3,957.99	3/4	3,677.31	3/4	3,374.86	3/4	3,052.09	3/4	2,720.94	3/4	2,389.80	3/4	2,058.65	3/4	1,727.50
2	2	2	4,227.36	2	3,952.33	2	3,671.23	2	3,368.33	2	3,045.19	2	2,714.04	2	2,382.90	2	2,051.75	2	1,720.60
1/4	1/4	1/4	4,220.87	1/4	3,946.67	1/4	3,665.15	1/4	3,361.81	1/4	3,038.29	1/4	2,707.15	1/4	2,376.00	1/4	2,044.85	1/4	1,713.70
1/2	1/2	1/2	4,214.37	1/2	3,941.01	1/2	3,659.07	1/2	3,355.28	1/2	3,031.39	1/2	2,700.25	1/2	2,369.10	1/2	2,037.95	1/2	1,706.81
3/4	3/4	3/4	4,207.88	3/4	3,935.35	3/4	3,652.99	3/4	3,348.76	3/4	3,024.50	3/4	2,693.35	3/4	2,362.20	3/4	2,031.05	3/4	1,699.91
3	3	3	4,201.38	3	3,929.66	3	3,646.84	3	3,342.19	3	3,017.60	3	2,686.45	3	2,355.30	3	2,024.15	3	1,693.01
1/4	1/4	1/4	4,194.89	1/4	3,923.97	1/4	3,640.70	1/4	3,335.63	1/4	3,010.70	1/4	2,679.55	1/4	2,348.40	1/4	2,017.26	1/4	1,686.11
1/2	1/2	1/2	4,188.40	1/2	3,918.27	1/2	3,634.55	1/2	3,329.06	1/2	3,003.80	1/2	2,672.65	1/2	2,341.50	1/2	2,010.36	1/2	1,679.21
3/4	3/4	3/4	4,181.90	3/4	3,912.58	3/4	3,628.41	3/4	3,322.50	3/4	2,996.90	3/4	2,665.75	3/4	2,334.61	3/4	2,003.46	3/4	1,672.31
4	4	4	4,175.44	4	3,906.85	4	3,622.22	4	3,315.89	4	2,990.00	4	2,658.85	4	2,327.71	4	1,996.56	4	1,665.41
1/4	1/4	1/4	4,168.98	1/4	3,901.11	1/4	3,616.03	1/4	3,309.28	1/4	2,983.10	1/4	2,651.95	1/4	2,320.81	1/4	1,989.66	1/4	1,658.51
1/2	1/2	1/2	4,162.53	1/2	3,895.38	1/2	3,609.85	1/2	3,302.68	1/2	2,976.20	1/2	2,645.06	1/2	2,313.91	1/2	1,982.76	1/2	1,651.61
3/4	3/4	3/4	4,156.07	3/4	3,889.64	3/4	3,603.66	3/4	3,296.07	3/4	2,969.30	3/4	2,638.16	3/4	2,307.01	3/4	1,975.86	3/4	1,644.72
5	5	5	4,149.61	5	3,883.88	5	3,597.44	5	3,289.44	5	2,962.41	5	2,631.26	5	2,300.11	5	1,968.96	5	1,637.82
1/4	1/4	1/4	4,143.15	1/4	3,878.12	1/4	3,591.22	1/4	3,282.80	1/4	2,955.51	1/4	2,624.36	1/4	2,293.21	1/4	1,962.06	1/4	1,630.92
1/2	1/2	1/2	4,136.69	1/2	3,872.35	1/2	3,585.01	1/2	3,276.16	1/2	2,948.61	1/2	2,617.46	1/2	2,286.31	1/2	1,955.17	1/2	1,624.02
3/4	3/4	3/4	4,130.23	3/4	3,866.59	3/4	3,578.79	3/4	3,269.53	3/4	2,941.71	3/4	2,610.56	3/4	2,279.41	3/4	1,948.27	3/4	1,617.12
6	6	6	4,123.77	6	3,860.81	6	3,572.53	6	3,262.85	6	2,934.81	6	2,603.66	6	2,272.52	6	1,941.37	6	1,610.22
1/4	1/4	1/4	4,117.31	1/4	3,855.02	1/4	3,566.27	1/4	3,256.17	1/4	2,927.91	1/4	2,596.76	1/4	2,265.62	1/4	1,934.47	1/4	1,603.32
1/2	1/2	1/2	4,110.85	1/2	3,849.24	1/2	3,560.01	1/2	3,249.49	1/2	2,921.01	1/2	2,589.86	1/2	2,258.72	1/2	1,927.57	1/2	1,596.42
3/4	3/4	3/4	4,104.39	3/4	3,843.45	3/4	3,553.75	3/4	3,242.81	3/4	2,914.11	3/4	2,582.97	3/4	2,251.82	3/4	1,920.67	3/4	1,589.52
7	7	7	4,099.38	7	3,837.63	7	3,547.46	7	3,236.11	7	2,907.21	7	2,576.07	7	2,244.92	7	1,913.77	7	1,582.63
1/4	1/4	1/4	4,094.37	1/4	3,831.80	1/4	3,541.17	1/4	3,229.40	1/4	2,900.32	1/4	2,569.17	1/4	2,238.02	1/4	1,906.87	1/4	1,575.73
1/2	1/2	1/2	4,089.36	1/2	3,825.98	1/2	3,534.88	1/2	3,222.69	1/2	2,893.42	1/2	2,562.27	1/2	2,231.12	1/2	1,899.97	1/2	1,568.83
3/4	3/4	3/4	4,084.35	3/4	3,820.15	3/4	3,528.60	3/4	3,215.98	3/4	2,886.52	3/4	2,555.37	3/4	2,224.22	3/4	1,893.08	3/4	1,561.93
8	8	8	4,079.31	8	3,814.29	8	3,522.28	8	3,209.23	8	2,879.62	8	2,548.47	8	2,217.32	8	1,886.18	8	1,555.03
1/4	1/4	1/4	4,074.27	1/4	3,808.44	1/4	3,515.95	1/4	3,202.48	1/4	2,872.72	1/4	2,541.57	1/4	2,210.43	1/4	1,879.28	1/4	1,548.13
1/2	1/2	1/2	4,069.23	1/2	3,802.58	1/2	3,509.63	1/2	3,195.73	1/2	2,865.82	1/2	2,534.67	1/2	2,203.53	1/2	1,872.38	1/2	1,541.23
3/4	3/4	3/4	4,064.19	3/4	3,796.73	3/4	3,503.31	3/4	3,188.97	3/4	2,858.92	3/4	2,527.77	3/4	2,196.63	3/4	1,865.48	3/4	1,534.33
9	9	9	4,059.10	9	3,790.83	9	3,496.95	9	3,182.19	9	2,852.02	9	2,520.88	9	2,189.73	9	1,858.58	9	1,527.43
1/4	1/4	1/4	4,054.02	1/4	3,784.93	1/4	3,490.59	1/4	3,175.42	1/4	2,845.12	1/4	2,513.98	1/4	2,182.83	1/4	1,851.68	1/4	1,520.54
1/2	1/2	1/2	4,048.94	1/2	3,779.03	1/2	3,484.23	1/2	3,168.64	1/2	2,838.23	1/2	2,507.08	1/2	2,175.93	1/2	1,844.78	1/2	1,513.64
3/4	3/4	3/4	4,043.85	3/4	3,773.14	3/4	3,477.88	3/4	3,161.86	3/4	2,831.33	3/4	2,500.18	3/4	2,169.03	3/4	1,837.88	3/4	1,506.74
10	10	10	4,038.74	10	3,767.21	10	3,471.49	10	3,155.04	10	2,824.43	10	2,493.28	10	2,162.13	10	1,830.99	10	1,499.84
1/4	1/4	1/4	4,033.63	1/4	3,761.28	1/4	3,465.11	1/4	3,148.23	1/4	2,817.53	1/4	2,486.38	1/4	2,155.23	1/4	1,824.09	1/4	1,492.94
1/2	1/2	1/2	4,028.52	1/2	3,755.35	1/2	3,458.73	1/2	3,141.42	1/2	2,810.63	1/2	2,479.48	1/2	2,148.34	1/2	1,817.19	1/2	1,486.04
3/4	3/4	3/4	4,023.41	3/4	3,749.43	3/4	3,452.35	3/4	3,134.61	3/4	2,803.73	3/4	2,472.58	3/4	2,141.44	3/4	1,810.29	3/4	1,479.14
11	11	11	4,018.26	11	3,743.45	11	3,445.92	11	3,127.76	11	2,796.83	11	2,465.68	11	2,134.54	11	1,803.39	11	1,472.24
1/4	1/4	1/4	4,013.12	1/4	3,737.47	1/4	3,439.50	1/4	3,120.91	1/4	2,789.93	1/4	2,458.79	1/4	2,127.64	1/4	1,796.49	1/4	1,465.34
1/2	1/2	1/2	4,007.97	1/2	3,731.48	1/2	3,433.08	1/2	3,114.06	1/2	2,783.03	1/2	2,451.89	1/2	2,120.74	1/2	1,789.59	1/2	1,458.45
3/4	3/4	3/4	4,278.91	3/4	4,002.83	3/4	3,725.50	3/4	3,426.66	3/4	3,107.21	3/4	2,776.13	3/4	2,444.99	3/4	2,113.84	3/4	1,451.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 370"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

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	1,444.65	0	1,114.71	0	800.37	0	505.71	0	230.63	0		0		0		0		0	
1/4	1,437.75	1/4	1,107.96	1/4	794.03	1/4	499.81	1/4	225.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,430.85	1/2	1,101.22	1/2	787.69	1/2	493.90	1/2	219.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,423.95	3/4	1,094.47	3/4	781.35	3/4	487.99	3/4	214.07	3/4		3/4		3/4		3/4		3/4	
1	1,417.05	1	1,087.76	1	775.05	1	482.11	1	208.58	1		1		1		1		1	
1/4	1,410.15	1/4	1,081.05	1/4	768.75	1/4	476.24	1/4	203.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,403.25	1/2	1,074.33	1/2	762.46	1/2	470.36	1/2	197.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,396.35	3/4	1,067.62	3/4	756.16	3/4	464.48	3/4	192.10	3/4		3/4		3/4		3/4		3/4	
2	1,389.46	2	1,060.95	2	749.90	2	458.63	2	186.64	2		2		2		2		2	
1/4	1,382.56	1/4	1,054.28	1/4	743.63	1/4	452.78	1/4	181.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,375.66	1/2	1,047.61	1/2	737.36	1/2	446.93	1/2	175.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,368.76	3/4	1,040.94	3/4	731.09	3/4	441.09	3/4	170.25	3/4		3/4		3/4		3/4		3/4	
3	1,361.86	3	1,034.30	3	724.85	3	435.27	3	164.83	3		3		3		3		3	
1/4	1,354.96	1/4	1,027.66	1/4	718.62	1/4	429.45	1/4	159.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,348.06	1/2	1,021.02	1/2	712.38	1/2	423.63	1/2	153.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,341.16	3/4	1,014.38	3/4	706.14	3/4	417.82	3/4	148.54	3/4		3/4		3/4		3/4		3/4	
4	1,334.26	4	1,007.77	4	699.94	4	412.03	4	143.15	4		4		4		4		4	
1/4	1,327.37	1/4	1,001.16	1/4	693.73	1/4	406.25	1/4	137.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,320.47	1/2	994.55	1/2	687.53	1/2	400.46	1/2	132.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,313.57	3/4	987.94	3/4	681.32	3/4	394.68	3/4	126.96	3/4		3/4		3/4		3/4		3/4	
5	1,306.67	5	981.36	5	675.15	5	388.92	5	121.61	5		5		5		5		5	
1/4	1,299.77	1/4	974.79	1/4	668.98	1/4	383.16	1/4	116.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,292.87	1/2	968.21	1/2	662.80	1/2	377.40	1/2	110.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,285.97	3/4	961.63	3/4	656.63	3/4	371.64	3/4	105.56	3/4		3/4		3/4		3/4		3/4	
6	1,279.07	6	955.09	6	650.49	6	365.92	6	100.24	6		6		6		6		6	
1/4	1,272.17	1/4	948.55	1/4	644.35	1/4	360.20	1/4	94.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,265.28	1/2	942.00	1/2	638.21	1/2	354.48	1/2	89.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,258.38	3/4	935.46	3/4	632.08	3/4	348.76	3/4	84.28	3/4		3/4		3/4		3/4		3/4	
7	1,251.48	7	928.96	7	625.98	7	343.06	7	78.99	7		7		7		7		7	
1/4	1,244.58	1/4	922.47	1/4	619.89	1/4	337.37	1/4	73.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,237.68	1/2	915.97	1/2	613.79	1/2	331.68	1/2	68.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,230.78	3/4	909.47	3/4	607.69	3/4	325.98	3/4	63.12	3/4		3/4		3/4		3/4		3/4	
8	1,223.88	8	903.00	8	601.64	8	320.32	8	57.86	8		8		8		8		8	
1/4	1,216.98	1/4	896.53	1/4	595.58	1/4	314.66	1/4	52.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,210.08	1/2	890.07	1/2	589.52	1/2	308.99	1/2	47.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,203.19	3/4	883.60	3/4	583.46	3/4	303.33	3/4	42.08	3/4		3/4		3/4		3/4		3/4	
9	1,196.34	9	877.16	9	577.44	9	297.70	9	37.72	9		9		9		9		9	
1/4	1,189.50	1/4	870.72	1/4	571.42	1/4	292.07	1/4	33.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,182.66	1/2	864.28	1/2	565.40	1/2	286.44	1/2	28.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,175.82	3/4	857.84	3/4	559.38	3/4	280.80	3/4	24.62	3/4		3/4		3/4		3/4		3/4	
10	1,169.01	10	851.43	10	553.40	10	275.21	10	22.02	10		10		10		10		10	
1/4	1,162.20	1/4	845.02	1/4	547.41	1/4	269.61	1/4	19.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,155.38	1/2	838.62	1/2	541.42	1/2	264.01	1/2	16.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,148.57	3/4	832.21	3/4	535.44	3/4	258.41	3/4	14.20	3/4		3/4		3/4		3/4		3/4	
11	1,141.79	11	825.84	11	529.48	11	252.85	11		11		11		11		11		11	
1/4	1,135.01	1/4	819.46	1/4	523.53	1/4	247.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,128.23	1/2	813.09	1/2	517.57	1/2	241.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,121.46	3/4	806.71	3/4	511.62	3/4	236.15	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/06/2009 CL - SW
CALCULATED: 03/07/2009 CL
PRINTED: 03/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2009

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



BARGE "EMS 370"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

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
	5,195.66		4,871.51		4,546.37		4,195.98		3,821.49		3,433.86		3,046.18		2,658.50		2,270.82		
1/4	5,190.08	1/4	4,864.97	1/4	4,539.34	1/4	4,188.43	1/4	3,813.43	1/4	3,425.79	1/4	3,038.10	1/4	2,650.42	1/4	2,262.74	1/4	
1/2	5,184.50	1/2	4,858.43	1/2	4,532.30	1/2	4,180.87	1/2	3,805.37	1/2	3,417.71	1/2	3,030.03	1/2	2,642.35	1/2	2,254.67	1/2	
3/4	5,178.92	3/4	4,851.89	3/4	4,525.27	3/4	4,173.32	3/4	3,797.31	3/4	3,409.63	3/4	3,021.95	3/4	2,634.27	3/4	2,246.59	3/4	
1	5,171.31	1	4,845.31	1	4,518.20	1	4,165.71	1	3,789.24	1	3,401.56	1	3,013.87	1	2,626.19	1	2,238.51	1	
1/4	5,163.71	1/4	4,838.73	1/4	4,511.13	1/4	4,158.11	1/4	3,781.16	1/4	3,393.48	1/4	3,005.80	1/4	2,618.12	1/4	2,230.43	1/4	
1/2	5,156.11	1/2	4,832.15	1/2	4,504.05	1/2	4,150.50	1/2	3,773.08	1/2	3,385.40	1/2	2,997.72	1/2	2,610.04	1/2	2,222.36	1/2	
3/4	5,148.51	3/4	4,825.57	3/4	4,496.98	3/4	4,142.90	3/4	3,765.01	3/4	3,377.33	3/4	2,989.64	3/4	2,601.96	3/4	2,214.28	3/4	
2	5,140.91	2	4,818.94	2	4,489.87	2	4,135.26	2	3,756.93	2	3,369.25	2	2,981.57	2	2,593.89	2	2,206.20	2	
1/4	5,133.30	1/4	4,812.32	1/4	4,482.75	1/4	4,127.62	1/4	3,748.85	1/4	3,361.17	1/4	2,973.49	1/4	2,585.81	1/4	2,198.13	1/4	
1/2	5,125.70	1/2	4,805.69	1/2	4,475.63	1/2	4,119.98	1/2	3,740.78	1/2	3,353.10	1/2	2,965.41	1/2	2,577.73	1/2	2,190.05	1/2	
3/4	5,118.10	3/4	4,799.06	3/4	4,468.51	3/4	4,112.34	3/4	3,732.70	3/4	3,345.02	3/4	2,957.34	3/4	2,569.66	3/4	2,181.97	3/4	
3	5,110.50	3	4,792.40	3	4,461.32	3	4,104.66	3	3,724.62	3	3,336.94	3	2,949.26	3	2,561.58	3	2,173.90	3	
1/4	5,102.89	1/4	4,785.73	1/4	4,454.12	1/4	4,096.97	1/4	3,716.55	1/4	3,328.87	1/4	2,941.18	1/4	2,553.50	1/4	2,165.82	1/4	
1/2	5,095.29	1/2	4,779.07	1/2	4,446.93	1/2	4,089.28	1/2	3,708.47	1/2	3,320.79	1/2	2,933.11	1/2	2,545.43	1/2	2,157.74	1/2	
3/4	5,087.69	3/4	4,772.41	3/4	4,439.73	3/4	4,081.59	3/4	3,700.39	3/4	3,312.71	3/4	2,925.03	3/4	2,537.35	3/4	2,149.67	3/4	
4	5,080.13	4	4,765.70	4	4,432.49	4	4,073.86	4	3,692.32	4	3,304.64	4	2,916.95	4	2,529.27	4	2,141.59	4	
1/4	5,072.57	1/4	4,758.98	1/4	4,425.25	1/4	4,066.13	1/4	3,684.24	1/4	3,296.56	1/4	2,908.88	1/4	2,521.20	1/4	2,133.51	1/4	
1/2	5,065.01	1/2	4,752.27	1/2	4,418.00	1/2	4,058.39	1/2	3,676.16	1/2	3,288.48	1/2	2,900.80	1/2	2,513.12	1/2	2,125.44	1/2	
3/4	5,057.44	3/4	4,745.56	3/4	4,410.76	3/4	4,050.66	3/4	3,668.09	3/4	3,280.41	3/4	2,892.72	3/4	2,505.04	3/4	2,117.36	3/4	
5	5,049.88	5	4,738.81	5	4,403.48	5	4,042.89	5	3,660.01	5	3,272.33	5	2,884.65	5	2,496.97	5	2,109.28	5	
1/4	5,042.32	1/4	4,732.06	1/4	4,396.20	1/4	4,035.12	1/4	3,651.93	1/4	3,264.25	1/4	2,876.57	1/4	2,488.89	1/4	2,101.21	1/4	
1/2	5,034.76	1/2	4,725.32	1/2	4,388.93	1/2	4,027.35	1/2	3,643.86	1/2	3,256.18	1/2	2,868.49	1/2	2,480.81	1/2	2,093.13	1/2	
3/4	5,027.20	3/4	4,718.57	3/4	4,381.65	3/4	4,019.58	3/4	3,635.78	3/4	3,248.10	3/4	2,860.42	3/4	2,472.74	3/4	2,085.05	3/4	
6	5,019.64	6	4,711.80	6	4,374.32	6	4,011.76	6	3,627.70	6	3,240.02	6	2,852.34	6	2,464.66	6	2,076.98	6	
1/4	5,012.07	1/4	4,705.02	1/4	4,366.99	1/4	4,003.94	1/4	3,619.63	1/4	3,231.95	1/4	2,844.26	1/4	2,456.58	1/4	2,068.90	1/4	
1/2	5,004.51	1/2	4,698.25	1/2	4,359.66	1/2	3,996.13	1/2	3,611.55	1/2	3,223.87	1/2	2,836.19	1/2	2,448.51	1/2	2,060.82	1/2	
3/4	4,996.95	3/4	4,691.48	3/4	4,352.33	3/4	3,988.31	3/4	3,603.47	3/4	3,215.79	3/4	2,828.11	3/4	2,440.43	3/4	2,052.75	3/4	
7	4,991.08	7	4,684.66	7	4,344.97	7	3,980.45	7	3,595.40	7	3,207.72	7	2,820.03	7	2,432.35	7	2,044.67	7	
1/4	4,985.22	1/4	4,677.84	1/4	4,337.61	1/4	3,972.60	1/4	3,587.32	1/4	3,199.64	1/4	2,811.96	1/4	2,424.28	1/4	2,036.59	1/4	
1/2	4,979.35	1/2	4,671.02	1/2	4,330.24	1/2	3,964.75	1/2	3,579.24	1/2	3,191.56	1/2	2,803.88	1/2	2,416.20	1/2	2,028.52	1/2	
3/4	4,973.49	3/4	4,664.20	3/4	4,322.88	3/4	3,956.89	3/4	3,571.17	3/4	3,183.49	3/4	2,795.80	3/4	2,408.12	3/4	2,020.44	3/4	
8	4,967.59	8	4,657.35	8	4,315.48	8	3,948.99	8	3,563.09	8	3,175.41	8	2,787.73	8	2,400.05	8	2,012.36	8	
1/4	4,961.69	1/4	4,650.49	1/4	4,308.08	1/4	3,941.08	1/4	3,555.01	1/4	3,167.33	1/4	2,779.65	1/4	2,391.97	1/4	2,004.29	1/4	
1/2	4,955.79	1/2	4,643.64	1/2	4,300.68	1/2	3,933.18	1/2	3,546.94	1/2	3,159.26	1/2	2,771.57	1/2	2,383.89	1/2	1,996.21	1/2	
3/4	4,949.89	3/4	4,636.78	3/4	4,293.28	3/4	3,925.28	3/4	3,538.86	3/4	3,151.18	3/4	2,763.50	3/4	2,375.82	3/4	1,988.13	3/4	
9	4,943.93	9	4,629.88	9	4,285.84	9	3,917.34	9	3,530.78	9	3,143.10	9	2,755.42	9	2,367.74	9	1,980.06	9	
1/4	4,937.98	1/4	4,622.97	1/4	4,278.39	1/4	3,909.40	1/4	3,522.71	1/4	3,135.03	1/4	2,747.34	1/4	2,359.66	1/4	1,971.98	1/4	
1/2	4,932.03	1/2	4,616.07	1/2	4,270.95	1/2	3,901.46	1/2	3,514.63	1/2	3,126.95	1/2	2,739.27	1/2	2,351.59	1/2	1,963.90	1/2	
3/4	4,926.08	3/4	4,609.17	3/4	4,263.50	3/4	3,893.53	3/4	3,506.55	3/4	3,118.87	3/4	2,731.19	3/4	2,343.51	3/4	1,955.83	3/4	
10	4,920.10	10	4,602.23	10	4,256.03	10	3,885.55	10	3,498.48	10	3,110.80	10	2,723.11	10	2,335.43	10	1,947.75	10	
1/4	4,914.11	1/4	4,595.29	1/4	4,248.56	1/4	3,877.58	1/4	3,490.40	1/4	3,102.72	1/4	2,715.04	1/4	2,327.36	1/4	1,939.67	1/4	
1/2	4,908.13	1/2	4,588.35	1/2	4,241.09	1/2	3,869.60	1/2	3,482.32	1/2	3,094.64	1/2	2,706.96	1/2	2,319.28	1/2	1,931.60	1/2	
3/4	4,902.14	3/4	4,581.41	3/4	4,233.62	3/4	3,861.63	3/4	3,474.25	3/4	3,086.57	3/4	2,698.88	3/4	2,311.20	3/4	1,923.52	3/4	
11	4,896.12	11	4,574.41	11	4,226.10	11	3,853.61	11	3,466.17	11	3,078.49	11	2,690.81	11	2,303.13	11	1,915.44	11	
1/4	4,890.10	1/4	4,567.41	1/4	4,218.58	1/4	3,845.59	1/4	3,458.09	1/4	3,070.41	1/4	2,682.73	1/4	2,295.05	1/4	1,907.37	1/4	
1/2	4,884.08	1/2	4,560.41	1/2	4,211.06	1/2	3,837.57	1/2	3,450.02	1/2	3,062.34	1/2	2,674.65	1/2	2,286.97	1/2	1,899.29	1/2	
3/4	4,878.06	3/4	4,553.40	3/4	4,203.54	3/4	3,829.55	3/4	3,441.94	3/4	3,054.26	3/4	2,666.58	3/4	2,278.90	3/4	1,891.21	3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 43'-00"



BARGE "EMS 370"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

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	1,883.14	0	1,495.46	0	1,107.77	0	726.15	0	347.69	0		0		0		0		0	
1/4	1,875.06	1/4	1,487.38	1/4	1,099.70	1/4	718.39	1/4	339.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,866.98	1/2	1,479.30	1/2	1,091.62	1/2	710.64	1/2	331.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,858.91	3/4	1,471.23	3/4	1,083.54	3/4	702.88	3/4	323.46	3/4		3/4		3/4		3/4		3/4	
1	1,850.83	1	1,463.15	1	1,075.47	1	695.13	1	315.38	1		1		1		1		1	
1/4	1,842.75	1/4	1,455.07	1/4	1,067.39	1/4	687.37	1/4	307.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,834.68	1/2	1,447.00	1/2	1,059.31	1/2	679.62	1/2	299.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,826.60	3/4	1,438.92	3/4	1,051.24	3/4	671.87	3/4	291.15	3/4		3/4		3/4		3/4		3/4	
2	1,818.52	2	1,430.84	2	1,043.16	2	664.11	2	283.08	2		2		2		2		2	
1/4	1,810.45	1/4	1,422.76	1/4	1,035.08	1/4	656.36	1/4	275.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,802.37	1/2	1,414.69	1/2	1,027.01	1/2	648.60	1/2	266.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,794.29	3/4	1,406.61	3/4	1,018.93	3/4	640.85	3/4	258.85	3/4		3/4		3/4		3/4		3/4	
3	1,786.22	3	1,398.53	3	1,010.85	3	633.10	3	250.77	3		3		3		3		3	
1/4	1,778.14	1/4	1,390.46	1/4	1,002.78	1/4	625.34	1/4	242.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,770.06	1/2	1,382.38	1/2	994.70	1/2	617.59	1/2	234.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,761.99	3/4	1,374.30	3/4	986.62	3/4	609.83	3/4	226.54	3/4		3/4		3/4		3/4		3/4	
4	1,753.91	4	1,366.23	4	978.55	4	602.08	4	218.47	4		4		4		4		4	
1/4	1,745.83	1/4	1,358.15	1/4	970.47	1/4	594.32	1/4	210.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,737.76	1/2	1,350.07	1/2	962.39	1/2	586.57	1/2	202.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.68	3/4	1,342.00	3/4	954.32	3/4	578.81	3/4	194.24	3/4		3/4		3/4		3/4		3/4	
5	1,721.60	5	1,333.92	5	946.24	5	571.05	5	186.16	5		5		5		5		5	
1/4	1,713.53	1/4	1,325.84	1/4	938.16	1/4	563.29	1/4	178.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.45	1/2	1,317.77	1/2	930.09	1/2	555.53	1/2	170.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.37	3/4	1,309.69	3/4	922.01	3/4	547.77	3/4	161.93	3/4		3/4		3/4		3/4		3/4	
6	1,689.30	6	1,301.61	6	913.93	6	539.99	6	153.85	6		6		6		6		6	
1/4	1,681.22	1/4	1,293.54	1/4	905.86	1/4	532.22	1/4	145.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,673.14	1/2	1,285.46	1/2	897.78	1/2	524.45	1/2	137.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,665.07	3/4	1,277.38	3/4	889.70	3/4	516.68	3/4	129.63	3/4		3/4		3/4		3/4		3/4	
7	1,656.99	7	1,269.31	7	881.78	7	508.76	7	121.55	7		7		7		7		7	
1/4	1,648.91	1/4	1,261.23	1/4	873.86	1/4	500.83	1/4	113.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,640.84	1/2	1,253.15	1/2	865.93	1/2	492.91	1/2	105.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,632.76	3/4	1,245.08	3/4	858.01	3/4	484.99	3/4	97.32	3/4		3/4		3/4		3/4		3/4	
8	1,624.68	8	1,237.00	8	850.25	8	476.91	8	89.24	8		8		8		8		8	
1/4	1,616.61	1/4	1,228.92	1/4	842.48	1/4	468.83	1/4	81.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,608.53	1/2	1,220.85	1/2	834.72	1/2	460.76	1/2	73.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,600.45	3/4	1,212.77	3/4	826.96	3/4	452.68	3/4	65.01	3/4		3/4		3/4		3/4		3/4	
9	1,592.38	9	1,204.69	9	819.21	9	444.60	9	57.95	9		9		9		9		9	
1/4	1,584.30	1/4	1,196.62	1/4	811.45	1/4	436.53	1/4	50.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,576.22	1/2	1,188.54	1/2	803.70	1/2	428.45	1/2	43.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,568.15	3/4	1,180.46	3/4	795.94	3/4	420.38	3/4	36.74	3/4		3/4		3/4		3/4		3/4	
10	1,560.07	10	1,172.39	10	788.19	10	412.30	10	31.69	10		10		10		10		10	
1/4	1,551.99	1/4	1,164.31	1/4	780.43	1/4	404.22	1/4	26.65	1/4		1/4		1/4		1/4		1/4	
1/2	1,543.92	1/2	1,156.23	1/2	772.68	1/2	396.15	1/2	21.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,535.84	3/4	1,148.16	3/4	764.92	3/4	388.07	3/4	16.55	3/4		3/4		3/4		3/4		3/4	
11	1,527.76	11	1,140.08	11	757.17	11	379.99	11		11		11		11		11		11	
1/4	1,519.69	1/4	1,132.00	1/4	749.41	1/4	371.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,511.61	1/2	1,123.93	1/2	741.66	1/2	363.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,503.53	3/4	1,115.85	3/4	733.90	3/4	355.76	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/06/2009 CL - SW
CALCULATED: 03/07/2009 CL
PRINTED: 03/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2009

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



BARGE "EMS 370"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	5,203.01	0	4,878.01	0	4,552.49	0	4,201.70	0	3,826.83	0	3,439.32	0	3,051.77	0	2,664.22	0	2,276.66		
1/4		1/4	5,197.43	1/4	4,871.47	1/4	4,545.46	1/4	4,194.14	1/4	3,818.78	1/4	3,431.25	1/4	3,043.69	1/4	2,656.14	1/4	2,268.59		
1/2		1/2	5,191.85	1/2	4,864.93	1/2	4,538.42	1/2	4,186.59	1/2	3,810.72	1/2	3,423.17	1/2	3,035.62	1/2	2,648.07	1/2	2,260.52		
3/4		3/4	5,184.25	3/4	4,858.36	3/4	4,531.36	3/4	4,178.99	3/4	3,802.65	3/4	3,415.10	3/4	3,027.55	3/4	2,639.99	3/4	2,252.44		
1		1	5,176.65	1	4,851.78	1	4,524.29	1	4,171.39	1	3,794.58	1	3,407.02	1	3,019.47	1	2,631.92	1	2,244.37		
1/4		1/4	5,169.05	1/4	4,845.20	1/4	4,517.22	1/4	4,163.78	1/4	3,786.50	1/4	3,398.95	1/4	3,011.40	1/4	2,623.85	1/4	2,236.29		
1/2		1/2	5,161.45	1/2	4,838.62	1/2	4,510.15	1/2	4,156.18	1/2	3,778.43	1/2	3,390.88	1/2	3,003.32	1/2	2,615.77	1/2	2,228.22		
3/4		3/4	5,153.85	3/4	4,832.00	3/4	4,503.03	3/4	4,148.54	3/4	3,770.35	3/4	3,382.80	3/4	2,995.25	3/4	2,607.70	3/4	2,220.15		
2		2	5,146.25	2	4,825.37	2	4,495.92	2	4,140.91	2	3,762.28	2	3,374.73	2	2,987.18	2	2,599.62	2	2,212.07		
1/4		1/4	5,138.65	1/4	4,818.75	1/4	4,488.80	1/4	4,133.27	1/4	3,754.21	1/4	3,366.65	1/4	2,979.10	1/4	2,591.55	1/4	2,204.00		
1/2		1/2	5,131.06	1/2	4,812.12	1/2	4,481.69	1/2	4,125.64	1/2	3,746.13	1/2	3,358.58	1/2	2,971.03	1/2	2,583.48	1/2	2,195.92		
3/4		3/4	5,123.46	3/4	4,805.46	3/4	4,474.50	3/4	4,117.95	3/4	3,738.06	3/4	3,350.51	3/4	2,962.95	3/4	2,575.40	3/4	2,187.85		
3		3	5,115.86	3	4,798.80	3	4,467.30	3	4,110.27	3	3,729.98	3	3,342.43	3	2,954.88	3	2,567.33	3	2,179.78		
1/4		1/4	5,108.26	1/4	4,792.14	1/4	4,460.11	1/4	4,102.58	1/4	3,721.91	1/4	3,334.36	1/4	2,946.81	1/4	2,559.25	1/4	2,171.70		
1/2		1/2	5,100.66	1/2	4,785.48	1/2	4,452.92	1/2	4,094.90	1/2	3,713.84	1/2	3,326.28	1/2	2,938.73	1/2	2,551.18	1/2	2,163.63		
3/4		3/4	5,093.10	3/4	4,778.77	3/4	4,445.68	3/4	4,087.17	3/4	3,705.76	3/4	3,318.21	3/4	2,930.66	3/4	2,543.11	3/4	2,155.55		
4		4	5,085.54	4	4,772.06	4	4,438.44	4	4,079.44	4	3,697.69	4	3,310.14	4	2,922.58	4	2,535.03	4	2,147.48		
1/4		1/4	5,077.98	1/4	4,765.35	1/4	4,431.20	1/4	4,071.71	1/4	3,689.61	1/4	3,302.06	1/4	2,914.51	1/4	2,526.96	1/4	2,139.41		
1/2		1/2	5,070.42	1/2	4,758.64	1/2	4,423.96	1/2	4,063.98	1/2	3,681.54	1/2	3,293.99	1/2	2,906.44	1/2	2,518.88	1/2	2,131.33		
3/4		3/4	5,062.86	3/4	4,751.89	3/4	4,416.68	3/4	4,056.21	3/4	3,673.47	3/4	3,285.91	3/4	2,898.36	3/4	2,510.81	3/4	2,123.26		
5		5	5,055.30	5	4,745.15	5	4,409.40	5	4,048.44	5	3,665.39	5	3,277.84	5	2,890.29	5	2,502.74	5	2,115.18		
1/4		1/4	5,047.74	1/4	4,738.40	1/4	4,402.13	1/4	4,040.67	1/4	3,657.32	1/4	3,269.77	1/4	2,882.21	1/4	2,494.66	1/4	2,107.11		
1/2		1/2	5,040.18	1/2	4,731.66	1/2	4,394.85	1/2	4,032.91	1/2	3,649.24	1/2	3,261.69	1/2	2,874.14	1/2	2,486.59	1/2	2,099.04		
3/4		3/4	5,032.62	3/4	4,724.89	3/4	4,387.52	3/4	4,025.09	3/4	3,641.17	3/4	3,253.62	3/4	2,866.07	3/4	2,478.51	3/4	2,090.96		
6		6	5,025.06	6	4,718.12	6	4,380.20	6	4,017.28	6	3,633.10	6	3,245.54	6	2,857.99	6	2,470.44	6	2,082.89		
1/4		1/4	5,017.51	1/4	4,711.35	1/4	4,372.87	1/4	4,009.46	1/4	3,625.02	1/4	3,237.47	1/4	2,849.92	1/4	2,462.37	1/4	2,074.81		
1/2		1/2	5,009.95	1/2	4,704.58	1/2	4,365.54	1/2	4,001.65	1/2	3,616.95	1/2	3,229.40	1/2	2,841.84	1/2	2,454.29	1/2	2,066.74		
3/4		3/4	5,004.08	3/4	4,697.76	3/4	4,358.18	3/4	3,993.79	3/4	3,608.87	3/4	3,221.32	3/4	2,833.77	3/4	2,446.22	3/4	2,058.67		
7		7	4,998.22	7	4,690.95	7	4,350.83	7	3,985.94	7	3,600.80	7	3,213.25	7	2,825.70	7	2,438.14	7	2,050.59		
1/4		1/4	4,992.36	1/4	4,684.13	1/4	4,343.47	1/4	3,978.09	1/4	3,592.73	1/4	3,205.17	1/4	2,817.62	1/4	2,430.07	1/4	2,042.52		
1/2		1/2	4,986.49	1/2	4,677.31	1/2	4,336.11	1/2	3,970.24	1/2	3,584.65	1/2	3,197.10	1/2	2,809.55	1/2	2,422.00	1/2	2,034.44		
3/4		3/4	4,980.60	3/4	4,670.46	3/4	4,328.71	3/4	3,962.34	3/4	3,576.58	3/4	3,189.03	3/4	2,801.47	3/4	2,413.92	3/4	2,026.37		
8		8	4,974.70	8	4,663.61	8	4,321.31	8	3,954.44	8	3,568.50	8	3,180.95	8	2,793.40	8	2,405.85	8	2,018.30		
1/4		1/4	4,968.80	1/4	4,656.75	1/4	4,313.92	1/4	3,946.54	1/4	3,560.43	1/4	3,172.88	1/4	2,785.33	1/4	2,397.77	1/4	2,010.22		
1/2		1/2	4,962.90	1/2	4,649.90	1/2	4,306.52	1/2	3,938.63	1/2	3,552.36	1/2	3,164.80	1/2	2,777.25	1/2	2,389.70	1/2	2,002.15		
3/4		3/4	4,956.95	3/4	4,643.00	3/4	4,299.08	3/4	3,930.70	3/4	3,544.28	3/4	3,156.73	3/4	2,769.18	3/4	2,381.63	3/4	1,994.07		
9		9	4,951.00	9	4,636.10	9	4,291.63	9	3,922.77	9	3,536.21	9	3,148.66	9	2,761.10	9	2,373.55	9	1,986.00		
1/4		1/4	4,945.05	1/4	4,629.19	1/4	4,284.19	1/4	3,914.83	1/4	3,528.13	1/4	3,140.58	1/4	2,753.03	1/4	2,365.48	1/4	1,977.93		
1/2		1/2	4,939.10	1/2	4,622.29	1/2	4,276.75	1/2	3,906.90	1/2	3,520.06	1/2	3,132.51	1/2	2,744.96	1/2	2,357.40	1/2	1,969.85		
3/4		3/4	4,933.12	3/4	4,615.36	3/4	4,269.28	3/4	3,898.92	3/4	3,511.99	3/4	3,124.43	3/4	2,736.88	3/4	2,349.33	3/4	1,961.78		
10		10	4,927.14	10	4,608.42	10	4,261.81	10	3,890.95	10	3,503.91	10	3,116.36	10	2,728.81	10	2,341.26	10	1,953.70		
1/4		1/4	4,921.15	1/4	4,601.48	1/4	4,254.34	1/4	3,882.98	1/4	3,495.84	1/4	3,108.29	1/4	2,720.73	1/4	2,333.18	1/4	1,945.63		
1/2		1/2	4,915.17	1/2	4,594.54	1/2	4,246.87	1/2	3,875.01	1/2	3,487.76	1/2	3,100.21	1/2	2,712.66	1/2	2,325.11	1/2	1,937.56		
3/4		3/4	4,909.15	3/4	4,587.55	3/4	4,239.35	3/4	3,866.99	3/4	3,479.69	3/4	3,092.14	3/4	2,704.59	3/4	2,317.03	3/4	1,929.48		
11		11	4,903.13	11	4,580.55	11	4,231.84	11	3,858.97	11	3,471.62	11	3,084.06	11	2,696.51	11	2,308.96	11	1,921.41		
1/4		1/4	4,897.11	1/4	4,573.55	1/4	4,224.32	1/4	3,850.96	1/4	3,463.54	1/4	3,075.99	1/4	2,688.44	1/4	2,300.89	1/4	1,913.33		
1/2		1/2	5,214.17	1/2	4,891.09	1/2	4,566.55	1/2	4,216.80	1/2	3,842.94	1/2	3,455.47	1/2	3,067.92	1/2	2,680.36	1/2	2,292.81	1/2	1,905.26
3/4		3/4	5,208.59	3/4	4,884.55	3/4	4,5														



BARGE "EMS 370"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	1,889.11	0	1,501.56	0	1,114.01	0	726.71	0	339.50	0		0		0		0		0	
1/4	1,881.04	1/4	1,493.49	1/4	1,105.93	1/4	718.66	1/4	331.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,872.96	1/2	1,485.41	1/2	1,097.86	1/2	710.60	1/2	323.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,864.89	3/4	1,477.34	3/4	1,089.79	3/4	702.54	3/4	315.28	3/4		3/4		3/4		3/4		3/4	
1	1,856.82	1	1,469.26	1	1,081.71	1	694.48	1	307.20	1		1		1		1		1	
1/4	1,848.74	1/4	1,461.19	1/4	1,073.64	1/4	686.43	1/4	299.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,840.67	1/2	1,453.12	1/2	1,065.56	1/2	678.37	1/2	291.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,832.59	3/4	1,445.04	3/4	1,057.49	3/4	670.31	3/4	282.98	3/4		3/4		3/4		3/4		3/4	
2	1,824.52	2	1,436.97	2	1,049.42	2	662.25	2	274.91	2		2		2		2		2	
1/4	1,816.45	1/4	1,428.89	1/4	1,041.34	1/4	654.20	1/4	266.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,808.37	1/2	1,420.82	1/2	1,033.27	1/2	646.14	1/2	258.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,800.30	3/4	1,412.75	3/4	1,025.19	3/4	638.08	3/4	250.69	3/4		3/4		3/4		3/4		3/4	
3	1,792.22	3	1,404.67	3	1,017.12	3	630.02	3	242.61	3		3		3		3		3	
1/4	1,784.15	1/4	1,396.60	1/4	1,009.05	1/4	621.97	1/4	234.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,776.08	1/2	1,388.52	1/2	1,000.97	1/2	613.91	1/2	226.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,768.00	3/4	1,380.45	3/4	992.90	3/4	605.85	3/4	218.39	3/4		3/4		3/4		3/4		3/4	
4	1,759.93	4	1,372.38	4	984.82	4	984.82	4	210.32	4		4		4		4		4	
1/4	1,751.85	1/4	1,364.30	1/4	976.75	1/4	976.75	1/4	202.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,743.78	1/2	1,356.23	1/2	968.68	1/2	968.68	1/2	194.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,735.71	3/4	1,348.15	3/4	960.60	3/4	960.60	3/4	186.10	3/4		3/4		3/4		3/4		3/4	
5	1,727.63	5	1,340.08	5	952.53	5	952.53	5	178.02	5		5		5		5		5	
1/4	1,719.56	1/4	1,332.01	1/4	944.45	1/4	944.45	1/4	169.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,711.48	1/2	1,323.93	1/2	936.38	1/2	936.38	1/2	161.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,703.41	3/4	1,315.86	3/4	928.31	3/4	928.31	3/4	153.80	3/4		3/4		3/4		3/4		3/4	
6	1,695.34	6	1,307.78	6	920.23	6	920.23	6	145.73	6		6		6		6		6	
1/4	1,687.26	1/4	1,299.71	1/4	912.16	1/4	912.16	1/4	137.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,679.19	1/2	1,291.64	1/2	904.08	1/2	904.08	1/2	129.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,671.11	3/4	1,283.56	3/4	896.01	3/4	896.01	3/4	121.51	3/4		3/4		3/4		3/4		3/4	
7	1,663.04	7	1,275.49	7	887.94	7	887.94	7	113.43	7		7		7		7		7	
1/4	1,654.97	1/4	1,267.41	1/4	879.86	1/4	879.86	1/4	105.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.89	1/2	1,259.34	1/2	871.79	1/2	871.79	1/2	97.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,638.82	3/4	1,251.27	3/4	863.72	3/4	863.72	3/4	89.21	3/4		3/4		3/4		3/4		3/4	
8	1,630.74	8	1,243.19	8	855.66	8	855.66	8	81.14	8		8		8		8		8	
1/4	1,622.67	1/4	1,235.12	1/4	847.59	1/4	847.59	1/4	73.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,614.60	1/2	1,227.04	1/2	839.53	1/2	839.53	1/2	64.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,606.52	3/4	1,218.97	3/4	831.47	3/4	831.47	3/4	57.93	3/4		3/4		3/4		3/4		3/4	
9	1,598.45	9	1,210.90	9	823.41	9	823.41	9	50.86	9		9		9		9		9	
1/4	1,590.37	1/4	1,202.82	1/4	815.35	1/4	815.35	1/4	42.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,582.30	1/2	1,194.75	1/2	807.30	1/2	807.30	1/2	36.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,574.23	3/4	1,186.67	3/4	799.24	3/4	799.24	3/4	31.68	3/4		3/4		3/4		3/4		3/4	
10	1,566.15	10	1,178.60	10	791.18	10	791.18	10	26.64	10		10		10		10		10	
1/4	1,558.08	1/4	1,170.53	1/4	783.12	1/4	783.12	1/4	19.60	1/4		1/4		1/4		1/4		1/4	
1/2	1,550.00	1/2	1,162.45	1/2	775.06	1/2	775.06	1/2	16.55	1/2		1/2		1/2		1/2		1/2	
3/4	1,541.93	3/4	1,154.38	3/4	767.00	3/4	767.00	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,533.86	11	1,146.30	11	758.95	11	758.95	11		11		11		11		11		11	
1/4	1,525.78	1/4	1,138.23	1/4	750.89	1/4	750.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,517.71	1/2	1,130.16	1/2	742.83	1/2	742.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,509.63	3/4	1,122.08	3/4	734.77	3/4	734.77	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/06/2009 CL - SW
CALCULATED: 03/07/2009 CL
PRINTED: 03/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2009

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



BARGE "EMS 370"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 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	4,476.53	0	4,229.46	0	4,010.66	0	3,768.75	0	3,503.66	0	3,193.27	0	2,833.22	0	2,472.77	0	2,112.00
1/4	1/4	1/4	4,470.92	1/4	4,225.12	1/4	4,005.86	1/4	3,763.47	1/4	3,497.89	1/4	3,185.78	1/4	2,825.72	1/4	2,465.26	1/4	2,104.48
1/2	1/2	1/2	4,465.31	1/2	4,220.78	1/2	4,001.06	1/2	3,758.20	1/2	3,492.11	1/2	3,178.28	1/2	2,818.21	1/2	2,457.74	1/2	2,096.97
3/4	3/4	3/4	4,459.70	3/4	4,216.44	3/4	3,996.26	3/4	3,752.92	3/4	3,486.33	3/4	3,170.78	3/4	2,810.70	3/4	2,450.23	3/4	2,089.45
1	1	1	4,453.08	1	4,212.06	1	3,991.43	1	3,747.60	1	3,480.54	1	3,163.29	1	2,803.20	1	2,442.71	1	2,081.94
1/4	1/4	1/4	4,446.46	1/4	4,207.68	1/4	3,986.59	1/4	3,742.27	1/4	3,474.74	1/4	3,155.79	1/4	2,795.69	1/4	2,435.19	1/4	2,074.42
1/2	1/2	1/2	4,439.84	1/2	4,203.31	1/2	3,981.76	1/2	3,736.95	1/2	3,468.95	1/2	3,148.29	1/2	2,788.18	1/2	2,427.68	1/2	2,066.90
3/4	3/4	3/4	4,433.22	3/4	4,198.93	3/4	3,976.92	3/4	3,731.62	3/4	3,463.15	3/4	3,140.80	3/4	2,780.68	3/4	2,420.16	3/4	2,059.39
2	2	2	4,427.46	2	4,194.51	2	3,972.05	2	3,726.27	2	3,457.36	2	3,133.30	2	2,773.17	2	2,412.65	2	2,051.87
1/4	1/4	1/4	4,421.70	1/4	4,190.09	1/4	3,967.17	1/4	3,720.91	1/4	3,451.56	1/4	3,125.80	1/4	2,765.66	1/4	2,405.13	1/4	2,044.36
1/2	1/2	1/2	4,415.94	1/2	4,185.67	1/2	3,962.29	1/2	3,715.56	1/2	3,445.77	1/2	3,118.31	1/2	2,758.16	1/2	2,397.61	1/2	2,036.84
3/4	3/4	3/4	4,410.18	3/4	4,181.25	3/4	3,957.41	3/4	3,710.21	3/4	3,439.97	3/4	3,110.81	3/4	2,750.65	3/4	2,390.10	3/4	2,029.32
3	3	3	4,404.42	3	4,176.79	3	3,952.47	3	3,704.81	3	3,434.18	3	3,103.32	3	2,743.14	3	2,382.58	3	2,021.81
1/4	1/4	1/4	4,398.66	1/4	4,172.34	1/4	3,947.53	1/4	3,699.41	1/4	3,428.38	1/4	3,095.82	1/4	2,735.63	1/4	2,375.06	1/4	2,014.29
1/2	1/2	1/2	4,392.90	1/2	4,167.88	1/2	3,942.59	1/2	3,694.01	1/2	3,422.59	1/2	3,088.32	1/2	2,728.13	1/2	2,367.55	1/2	2,006.78
3/4	3/4	3/4	4,387.14	3/4	4,163.43	3/4	3,937.65	3/4	3,688.62	3/4	3,416.79	3/4	3,080.83	3/4	2,720.62	3/4	2,360.03	3/4	1,999.26
4	4	4	4,381.40	4	4,158.93	4	3,932.67	4	3,683.17	4	3,411.01	4	3,073.33	4	2,713.11	4	2,352.52	4	1,991.74
1/4	1/4	1/4	4,375.67	1/4	4,154.43	1/4	3,927.69	1/4	3,677.73	1/4	3,405.22	1/4	3,065.83	1/4	2,705.61	1/4	2,345.00	1/4	1,984.23
1/2	1/2	1/2	4,369.94	1/2	4,149.92	1/2	3,922.70	1/2	3,672.29	1/2	3,399.44	1/2	3,058.34	1/2	2,698.10	1/2	2,337.48	1/2	1,976.71
3/4	3/4	3/4	4,364.21	3/4	4,145.42	3/4	3,917.72	3/4	3,666.85	3/4	3,393.65	3/4	3,050.84	3/4	2,690.59	3/4	2,329.97	3/4	1,969.20
5	5	5	4,358.48	5	4,140.89	5	3,912.70	5	3,661.38	5	3,387.87	5	3,043.34	5	2,683.09	5	2,322.45	5	1,961.68
1/4	1/4	1/4	4,352.74	1/4	4,136.36	1/4	3,907.68	1/4	3,655.90	1/4	3,382.08	1/4	3,035.85	1/4	2,675.58	1/4	2,314.94	1/4	1,954.16
1/2	1/2	1/2	4,347.01	1/2	4,131.83	1/2	3,902.67	1/2	3,650.43	1/2	3,376.30	1/2	3,028.35	1/2	2,668.07	1/2	2,307.42	1/2	1,946.65
3/4	3/4	3/4	4,341.28	3/4	4,127.30	3/4	3,897.65	3/4	3,644.95	3/4	3,370.51	3/4	3,020.86	3/4	2,660.57	3/4	2,299.90	3/4	1,939.13
6	6	6	4,335.55	6	4,122.74	6	3,892.58	6	3,639.40	6	3,364.73	6	3,013.36	6	2,653.06	6	2,292.39	6	1,931.61
1/4	1/4	1/4	4,329.82	1/4	4,118.18	1/4	3,887.52	1/4	3,633.85	1/4	3,358.94	1/4	3,005.86	1/4	2,645.55	1/4	2,284.87	1/4	1,924.10
1/2	1/2	1/2	4,324.08	1/2	4,113.62	1/2	3,882.46	1/2	3,628.29	1/2	3,353.16	1/2	2,998.37	1/2	2,638.05	1/2	2,277.36	1/2	1,916.58
3/4	3/4	3/4	4,318.35	3/4	4,109.06	3/4	3,877.39	3/4	3,622.74	3/4	3,347.37	3/4	2,990.87	3/4	2,630.54	3/4	2,269.84	3/4	1,909.07
7	7	7	4,314.20	7	4,104.46	7	3,872.30	7	3,617.15	7	3,340.73	7	2,983.36	7	2,623.03	7	2,262.32	7	1,901.55
1/4	1/4	1/4	4,310.04	1/4	4,099.86	1/4	3,867.20	1/4	3,611.57	1/4	3,334.08	1/4	2,975.86	1/4	2,615.52	1/4	2,254.81	1/4	1,894.03
1/2	1/2	1/2	4,305.89	1/2	4,095.26	1/2	3,862.11	1/2	3,605.98	1/2	3,327.43	1/2	2,968.35	1/2	2,608.02	1/2	2,247.29	1/2	1,886.52
3/4	3/4	3/4	4,301.74	3/4	4,090.65	3/4	3,857.01	3/4	3,600.39	3/4	3,320.79	3/4	2,960.84	3/4	2,600.51	3/4	2,239.77	3/4	1,879.00
8	8	8	4,297.55	8	4,086.02	8	3,851.88	8	3,594.76	8	3,313.28	8	2,953.34	8	2,593.00	8	2,232.26	8	1,871.51
1/4	1/4	1/4	4,293.36	1/4	4,081.38	1/4	3,846.75	1/4	3,589.13	1/4	3,305.77	1/4	2,945.83	1/4	2,585.50	1/4	2,224.74	1/4	1,864.02
1/2	1/2	1/2	4,289.18	1/2	4,076.75	1/2	3,841.62	1/2	3,583.49	1/2	3,298.27	1/2	2,938.32	1/2	2,577.99	1/2	2,217.23	1/2	1,856.52
3/4	3/4	3/4	4,284.99	3/4	4,072.11	3/4	3,836.49	3/4	3,577.86	3/4	3,290.76	3/4	2,930.81	3/4	2,570.48	3/4	2,209.71	3/4	1,849.03
9	9	9	4,280.76	9	4,067.43	9	3,831.32	9	3,572.20	9	3,283.26	9	2,923.31	9	2,562.97	9	2,202.19	9	1,841.54
1/4	1/4	1/4	4,276.52	1/4	4,062.75	1/4	3,826.15	1/4	3,566.53	1/4	3,275.75	1/4	2,915.80	1/4	2,555.45	1/4	2,194.68	1/4	1,834.05
1/2	1/2	1/2	4,272.29	1/2	4,058.07	1/2	3,820.97	1/2	3,560.87	1/2	3,268.25	1/2	2,908.29	1/2	2,547.93	1/2	2,187.16	1/2	1,826.55
3/4	3/4	3/4	4,268.06	3/4	4,053.39	3/4	3,815.80	3/4	3,555.20	3/4	3,260.74	3/4	2,900.79	3/4	2,540.42	3/4	2,179.65	3/4	1,819.06
10	10	10	4,263.79	10	4,048.67	10	3,810.60	10	3,549.50	10	3,253.24	10	2,893.28	10	2,532.90	10	2,172.13	10	1,811.57
1/4	1/4	1/4	4,259.53	1/4	4,043.96	1/4	3,805.40	1/4	3,543.80	1/4	3,245.75	1/4	2,885.77	1/4	2,525.39	1/4	2,164.61	1/4	1,804.08
1/2	1/2	1/2	4,255.26	1/2	4,039.25	1/2	3,800.20	1/2	3,538.11	1/2	3,238.25	1/2	2,878.27	1/2	2,517.87	1/2	2,157.10	1/2	1,796.58
3/4	3/4	3/4	4,251.00	3/4	4,034.53	3/4	3,795.00	3/4	3,532.41	3/4	3,230.75	3/4	2,870.76	3/4	2,510.35	3/4	2,149.58	3/4	1,789.09
11	11	11	4,246.70	11	4,029.76	11	3,789.76	11	3,526.66	11	3,223.26	11	2,863.25	11	2,502.84	11	2,142.07	11	1,781.60
1/4	1/4	1/4	4,242.40	1/4	4,024.99	1/4	3,784.51	1/4	3,520.92	1/4	3,215.76	1/4	2,855.75	1/4	2,495.32	1/4	2,134.55	1/4	1,774.11
1/2	1/2	1/2	4,238.10	1/2	4,020.23	1/2	3,779.27	1/2	3,515.18	1/2	3,208.27	1/2	2,848.24	1/2	2,487.81	1/2	2,127.03	1/2	1,766.61
3/4	3/4	3/4	4,482.14	3/4	4,233.80	3/4	4,015.46	3/4	3,774.03	3/4	3,509.44	3/4	3,200.77	3/4	2,840.73	3/4	2,480.29	3/4	2,119.52

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 370"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

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	1,751.63	0	1,391.64	0	1,031.03	0	675.88	0	323.69	0		0		0		0		0	
1/4	1,744.14	1/4	1,384.13	1/4	1,023.52	1/4	668.67	1/4	316.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.64	1/2	1,376.62	1/2	1,016.00	1/2	661.45	1/2	308.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.15	3/4	1,369.11	3/4	1,008.49	3/4	654.24	3/4	301.14	3/4		3/4		3/4		3/4		3/4	
1	1,721.66	1	1,361.59	1	1,000.98	1	647.02	1	293.62	1	1	1	1	1	1	1	1	1	1
1/4	1,714.17	1/4	1,354.08	1/4	993.47	1/4	639.81	1/4	286.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.67	1/2	1,346.57	1/2	985.95	1/2	632.59	1/2	278.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.18	3/4	1,339.05	3/4	978.44	3/4	625.38	3/4	271.06	3/4		3/4		3/4		3/4		3/4	
2	1,691.69	2	1,331.54	2	970.93	2	618.16	2	263.54	2	2	2	2	2	2	2	2	2	2
1/4	1,684.20	1/4	1,324.03	1/4	963.41	1/4	610.95	1/4	256.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,676.70	1/2	1,316.52	1/2	955.90	1/2	603.73	1/2	248.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,669.21	3/4	1,309.00	3/4	948.39	3/4	596.52	3/4	240.99	3/4		3/4		3/4		3/4		3/4	
3	1,661.72	3	1,301.49	3	940.88	3	589.30	3	233.47	3	3	3	3	3	3	3	3	3	3
1/4	1,654.23	1/4	1,293.98	1/4	933.36	1/4	582.08	1/4	225.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.73	1/2	1,286.47	1/2	925.85	1/2	574.87	1/2	218.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,639.24	3/4	1,278.95	3/4	918.34	3/4	567.65	3/4	210.92	3/4		3/4		3/4		3/4		3/4	
4	1,631.75	4	1,271.44	4	910.83	4	560.44	4	203.40	4	4	4	4	4	4	4	4	4	4
1/4	1,624.26	1/4	1,263.93	1/4	903.31	1/4	553.22	1/4	195.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,616.76	1/2	1,256.41	1/2	895.80	1/2	546.00	1/2	188.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,609.27	3/4	1,248.90	3/4	888.29	3/4	538.79	3/4	180.84	3/4		3/4		3/4		3/4		3/4	
5	1,601.78	5	1,241.39	5	880.77	5	531.57	5	173.32	5	5	5	5	5	5	5	5	5	5
1/4	1,594.29	1/4	1,233.88	1/4	873.26	1/4	524.34	1/4	165.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,586.79	1/2	1,226.36	1/2	865.75	1/2	517.12	1/2	158.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,579.30	3/4	1,218.85	3/4	858.24	3/4	509.90	3/4	150.77	3/4		3/4		3/4		3/4		3/4	
6	1,571.81	6	1,211.34	6	850.72	6	502.67	6	143.25	6	6	6	6	6	6	6	6	6	6
1/4	1,564.32	1/4	1,203.82	1/4	843.21	1/4	495.44	1/4	135.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,556.82	1/2	1,196.31	1/2	835.70	1/2	488.20	1/2	128.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,549.33	3/4	1,188.80	3/4	828.18	3/4	480.97	3/4	120.70	3/4		3/4		3/4		3/4		3/4	
7	1,541.84	7	1,181.29	7	820.81	7	473.60	7	113.18	7	7	7	7	7	7	7	7	7	7
1/4	1,534.35	1/4	1,173.77	1/4	813.43	1/4	466.24	1/4	105.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,526.85	1/2	1,166.26	1/2	806.05	1/2	458.87	1/2	98.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,519.36	3/4	1,158.75	3/4	798.67	3/4	451.50	3/4	90.62	3/4		3/4		3/4		3/4		3/4	
8	1,511.85	8	1,151.23	8	791.44	8	443.98	8	83.10	8	8	8	8	8	8	8	8	8	8
1/4	1,504.34	1/4	1,143.72	1/4	784.20	1/4	436.46	1/4	75.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,496.82	1/2	1,136.21	1/2	776.97	1/2	428.95	1/2	68.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,489.31	3/4	1,128.70	3/4	769.74	3/4	421.43	3/4	60.55	3/4		3/4		3/4		3/4		3/4	
9	1,481.80	9	1,121.18	9	762.51	9	413.91	9	53.97	9	9	9	9	9	9	9	9	9	9
1/4	1,474.29	1/4	1,113.67	1/4	755.28	1/4	406.39	1/4	47.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,466.77	1/2	1,106.16	1/2	748.05	1/2	398.87	1/2	40.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,459.26	3/4	1,098.65	3/4	740.83	3/4	391.35	3/4	34.23	3/4		3/4		3/4		3/4		3/4	
10	1,451.75	10	1,091.13	10	733.61	10	383.84	10	29.53	10	10	10	10	10	10	10	10	10	10
1/4	1,444.23	1/4	1,083.62	1/4	726.39	1/4	376.32	1/4	24.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.72	1/2	1,076.11	1/2	719.18	1/2	368.80	1/2	20.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,429.21	3/4	1,068.59	3/4	711.96	3/4	361.28	3/4	15.44	3/4		3/4		3/4		3/4		3/4	
11	1,421.70	11	1,061.08	11	704.75	11	353.76	11		11	11	11	11	11	11	11	11	11	11
1/4	1,414.18	1/4	1,053.57	1/4	697.53	1/4	346.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,406.67	1/2	1,046.06	1/2	690.32	1/2	338.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,399.16	3/4	1,038.54	3/4	683.10	3/4	331.21	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/06/2009 CL - SW
CALCULATED: 03/07/2009 CL
PRINTED: 03/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 370"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

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		IN	
0		0	4,485.17	0	4,235.29	0	4,013.08	0	3,768.89	0	3,502.66	0	3,191.77	0	2,831.35	0	2,471.05	0	2,110.87		
1/4	1/4	1/4	4,479.52	1/4	4,230.88	1/4	4,008.21	1/4	3,763.56	1/4	3,496.88	1/4	3,184.26	1/4	2,823.84	1/4	2,463.56	1/4	2,103.35		
1/2	1/2	1/2	4,473.88	1/2	4,226.47	1/2	4,003.34	1/2	3,758.24	1/2	3,491.10	1/2	3,176.75	1/2	2,816.33	1/2	2,456.06	1/2	2,095.84		
3/4	3/4	3/4	4,468.24	3/4	4,222.06	3/4	3,998.47	3/4	3,752.91	3/4	3,485.32	3/4	3,169.24	3/4	2,808.82	3/4	2,448.56	3/4	2,088.33		
1	1	1	4,461.57	1	4,217.61	1	3,993.57	1	3,747.54	1	3,479.52	1	3,161.73	1	2,801.31	1	2,441.07	1	2,080.82		
1/4	1/4	1/4	4,454.91	1/4	4,213.17	1/4	3,988.67	1/4	3,742.17	1/4	3,473.72	1/4	3,154.22	1/4	2,793.80	1/4	2,433.57	1/4	2,073.31		
1/2	1/2	1/2	4,448.25	1/2	4,208.72	1/2	3,983.77	1/2	3,736.80	1/2	3,467.92	1/2	3,146.71	1/2	2,786.29	1/2	2,426.08	1/2	2,065.79		
3/4	3/4	3/4	4,441.59	3/4	4,204.28	3/4	3,978.87	3/4	3,731.43	3/4	3,462.12	3/4	3,139.20	3/4	2,778.79	3/4	2,418.58	3/4	2,058.28		
2	2	2	4,435.79	2	4,199.79	2	3,973.92	2	3,726.02	2	3,456.32	2	3,131.69	2	2,771.28	2	2,411.09	2	2,050.77		
1/4	1/4	1/4	4,429.99	1/4	4,195.30	1/4	3,968.98	1/4	3,720.62	1/4	3,450.52	1/4	3,124.19	1/4	2,763.77	1/4	2,403.59	1/4	2,043.26		
1/2	1/2	1/2	4,424.19	1/2	4,190.81	1/2	3,964.03	1/2	3,715.22	1/2	3,444.72	1/2	3,116.68	1/2	2,756.26	1/2	2,396.10	1/2	2,035.75		
3/4	3/4	3/4	4,418.39	3/4	4,186.33	3/4	3,959.09	3/4	3,709.82	3/4	3,438.92	3/4	3,109.17	3/4	2,748.75	3/4	2,388.60	3/4	2,028.24		
3	3	3	4,412.59	3	4,181.80	3	3,954.11	3	3,704.38	3	3,433.12	3	3,101.66	3	2,741.24	3	2,381.11	3	2,020.72		
1/4	1/4	1/4	4,406.79	1/4	4,177.28	1/4	3,949.13	1/4	3,698.94	1/4	3,427.32	1/4	3,094.15	1/4	2,733.73	1/4	2,373.61	1/4	2,013.21		
1/2	1/2	1/2	4,400.99	1/2	4,172.76	1/2	3,944.15	1/2	3,693.51	1/2	3,421.52	1/2	3,086.64	1/2	2,726.22	1/2	2,366.12	1/2	2,005.70		
3/4	3/4	3/4	4,395.19	3/4	4,168.24	3/4	3,939.17	3/4	3,688.07	3/4	3,415.72	3/4	3,079.13	3/4	2,718.72	3/4	2,358.62	3/4	1,998.19		
4	4	4	4,389.39	4	4,163.67	4	3,934.15	4	3,682.59	4	3,409.92	4	3,071.62	4	2,711.21	4	2,351.13	4	1,990.68		
1/4	1/4	1/4	4,383.59	1/4	4,159.10	1/4	3,929.12	1/4	3,677.11	1/4	3,404.12	1/4	3,064.12	1/4	2,703.70	1/4	2,343.63	1/4	1,983.17		
1/2	1/2	1/2	4,377.79	1/2	4,154.53	1/2	3,924.10	1/2	3,671.63	1/2	3,398.32	1/2	3,056.61	1/2	2,696.19	1/2	2,336.14	1/2	1,975.65		
3/4	3/4	3/4	4,371.99	3/4	4,149.96	3/4	3,919.07	3/4	3,666.15	3/4	3,392.52	3/4	3,049.10	3/4	2,688.68	3/4	2,328.64	3/4	1,968.14		
5	5	5	4,366.19	5	4,145.36	5	3,914.02	5	3,662.64	5	3,386.72	5	3,041.59	5	2,681.17	5	2,321.15	5	1,960.63		
1/4	1/4	1/4	4,360.39	1/4	4,140.76	1/4	3,908.96	1/4	3,655.12	1/4	3,380.92	1/4	3,034.08	1/4	2,673.66	1/4	2,313.65	1/4	1,953.12		
1/2	1/2	1/2	4,354.59	1/2	4,136.16	1/2	3,903.90	1/2	3,649.61	1/2	3,375.12	1/2	3,026.57	1/2	2,666.16	1/2	2,306.16	1/2	1,945.61		
3/4	3/4	3/4	4,348.80	3/4	4,131.56	3/4	3,898.85	3/4	3,644.09	3/4	3,369.32	3/4	3,019.06	3/4	2,658.65	3/4	2,298.66	3/4	1,938.09		
6	6	6	4,343.00	6	4,126.93	6	3,893.74	6	3,638.53	6	3,363.52	6	3,011.56	6	2,651.14	6	2,291.15	6	1,930.58		
1/4	1/4	1/4	4,337.20	1/4	4,122.30	1/4	3,888.64	1/4	3,632.97	1/4	3,357.72	1/4	3,004.05	1/4	2,643.63	1/4	2,283.64	1/4	1,923.07		
1/2	1/2	1/2	4,331.40	1/2	4,117.66	1/2	3,883.53	1/2	3,627.42	1/2	3,351.92	1/2	2,996.54	1/2	2,636.12	1/2	2,276.13	1/2	1,915.56		
3/4	3/4	3/4	4,325.60	3/4	4,113.03	3/4	3,878.43	3/4	3,621.86	3/4	3,346.13	3/4	2,989.03	3/4	2,628.61	3/4	2,268.61	3/4	1,908.05		
7	7	7	4,321.38	7	4,108.35	7	3,873.30	7	3,616.26	7	3,339.46	7	2,981.52	7	2,621.10	7	2,261.10	7	1,900.54		
1/4	1/4	1/4	4,317.15	1/4	4,103.67	1/4	3,868.16	1/4	3,610.67	1/4	3,332.80	1/4	2,974.01	1/4	2,613.59	1/4	2,253.59	1/4	1,893.02		
1/2	1/2	1/2	4,312.93	1/2	4,099.00	1/2	3,863.03	1/2	3,605.08	1/2	3,326.14	1/2	2,966.50	1/2	2,606.09	1/2	2,246.08	1/2	1,885.51		
3/4	3/4	3/4	4,308.71	3/4	4,094.32	3/4	3,857.89	3/4	3,599.49	3/4	3,319.48	3/4	2,958.99	3/4	2,598.58	3/4	2,238.57	3/4	1,878.00		
8	8	8	4,304.46	8	4,089.61	8	3,852.72	8	3,593.85	8	3,311.97	8	2,951.49	8	2,591.07	8	2,231.05	8	1,870.49		
1/4	1/4	1/4	4,300.20	1/4	4,084.89	1/4	3,847.55	1/4	3,588.21	1/4	3,304.45	1/4	2,943.98	1/4	2,583.56	1/4	2,223.54	1/4	1,862.98		
1/2	1/2	1/2	4,295.95	1/2	4,080.18	1/2	3,842.38	1/2	3,582.57	1/2	3,296.94	1/2	2,936.47	1/2	2,576.05	1/2	2,216.03	1/2	1,855.46		
3/4	3/4	3/4	4,291.70	3/4	4,075.47	3/4	3,837.21	3/4	3,576.93	3/4	3,289.43	3/4	2,928.96	3/4	2,568.54	3/4	2,208.52	3/4	1,847.95		
9	9	9	4,287.39	9	4,070.71	9	3,832.00	9	3,571.26	9	3,281.92	9	2,921.45	9	2,561.03	9	2,201.01	9	1,840.44		
1/4	1/4	1/4	4,283.09	1/4	4,065.96	1/4	3,826.79	1/4	3,565.59	1/4	3,274.41	1/4	2,913.94	1/4	2,553.52	1/4	2,193.50	1/4	1,832.93		
1/2	1/2	1/2	4,278.79	1/2	4,061.20	1/2	3,821.58	1/2	3,559.92	1/2	3,266.89	1/2	2,906.43	1/2	2,546.02	1/2	2,185.98	1/2	1,825.42		
3/4	3/4	3/4	4,274.49	3/4	4,056.45	3/4	3,816.36	3/4	3,554.25	3/4	3,259.38	3/4	2,898.92	3/4	2,538.51	3/4	2,178.47	3/4	1,817.91		
10	10	10	4,270.16	10	4,051.66	10	3,811.12	10	3,548.55	10	3,251.87	10	2,891.42	10	2,531.01	10	2,170.96	10	1,810.39		
1/4	1/4	1/4	4,265.83	1/4	4,046.87	1/4	3,805.87	1/4	3,542.84	1/4	3,244.36	1/4	2,883.91	1/4	2,523.52	1/4	2,163.45	1/4	1,802.88		
1/2	1/2	1/2	4,261.49	1/2	4,042.08	1/2	3,800.62	1/2	3,537.14	1/2	3,236.85	1/2	2,876.40	1/2	2,516.02	1/2	2,155.94	1/2	1,795.37		
3/4	3/4	3/4	4,257.16	3/4	4,037.29	3/4	3,795.38	3/4	3,531.43	3/4	3,229.33	3/4	2,868.89	3/4	2,508.53	3/4	2,148.42	3/4	1,787.86		
11	11	11	4,252.80	11	4,032.45	11	3,790.09	11	3,525.69	11	3,221.82	11	2,861.38	11	2,501.03	11	2,140.91	11	1,780.40		
1/4	1/4	1/4	4,248.43	1/4	4,027.62	1/4	3,784.79	1/4	3,519.94	1/4	3,214.31	1/4	2,853.87	1/4	2,493.54	1/4	2,133.40	1/4	1,772.95		
1/2	1/2	1/2	4,244.06	1/2	4,022.78	1/2	3,779.50	1/2	3,514.19	1/2	3,206.80	1/2	2,846.36	1/2	2,486.04	1/2	2,125.89	1/2	1,765.49		
3/4	3/4	3/4	4,490.81	3/4	4,239.70	3/4	4,017.94	3/4	3,774.21	3/4	3,508.44	3/4	3,199.29	3/4	2,838.86	3/4	2,478.55	3/4	2,118.38	3/4	1,758.04

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 370"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 3/4"

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	1,751.63	0	1,391.64	0	1,031.03	0	675.88	0	323.69	0		0		0		0		0	
1/4	1,744.14	1/4	1,384.13	1/4	1,023.52	1/4	668.67	1/4	316.17	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.64	1/2	1,376.62	1/2	1,016.00	1/2	661.45	1/2	308.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,729.15	3/4	1,369.11	3/4	1,008.49	3/4	654.24	3/4	301.14	3/4		3/4		3/4		3/4		3/4	
1	1,721.66	1	1,361.59	1	1,000.98	1	647.02	1	293.62	1	1	1	1	1	1	1	1	1	1
1/4	1,714.17	1/4	1,354.08	1/4	993.47	1/4	639.81	1/4	286.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.67	1/2	1,346.57	1/2	985.95	1/2	632.59	1/2	278.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.18	3/4	1,339.05	3/4	978.44	3/4	625.38	3/4	271.06	3/4		3/4		3/4		3/4		3/4	
2	1,691.69	2	1,331.54	2	970.93	2	618.16	2	263.54	2	2	2	2	2	2	2	2	2	2
1/4	1,684.20	1/4	1,324.03	1/4	963.41	1/4	610.95	1/4	256.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,676.70	1/2	1,316.52	1/2	955.90	1/2	603.73	1/2	248.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,669.21	3/4	1,309.00	3/4	948.39	3/4	596.52	3/4	240.99	3/4		3/4		3/4		3/4		3/4	
3	1,661.72	3	1,301.49	3	940.88	3	589.30	3	233.47	3	3	3	3	3	3	3	3	3	3
1/4	1,654.23	1/4	1,293.98	1/4	933.36	1/4	582.08	1/4	225.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.73	1/2	1,286.47	1/2	925.85	1/2	574.87	1/2	218.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,639.24	3/4	1,278.95	3/4	918.34	3/4	567.65	3/4	210.92	3/4		3/4		3/4		3/4		3/4	
4	1,631.75	4	1,271.44	4	910.83	4	560.44	4	203.40	4	4	4	4	4	4	4	4	4	4
1/4	1,624.26	1/4	1,263.93	1/4	903.31	1/4	553.22	1/4	195.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,616.76	1/2	1,256.41	1/2	895.80	1/2	546.00	1/2	188.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,609.27	3/4	1,248.90	3/4	888.29	3/4	538.79	3/4	180.84	3/4		3/4		3/4		3/4		3/4	
5	1,601.78	5	1,241.39	5	880.77	5	531.57	5	173.32	5	5	5	5	5	5	5	5	5	5
1/4	1,594.29	1/4	1,233.88	1/4	873.26	1/4	524.34	1/4	165.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,586.79	1/2	1,226.36	1/2	865.75	1/2	517.12	1/2	158.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,579.30	3/4	1,218.85	3/4	858.24	3/4	509.90	3/4	150.77	3/4		3/4		3/4		3/4		3/4	
6	1,571.81	6	1,211.34	6	850.72	6	502.67	6	143.25	6	6	6	6	6	6	6	6	6	6
1/4	1,564.32	1/4	1,203.82	1/4	843.21	1/4	495.44	1/4	135.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,556.82	1/2	1,196.31	1/2	835.70	1/2	488.20	1/2	128.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,549.33	3/4	1,188.80	3/4	828.18	3/4	480.97	3/4	120.70	3/4		3/4		3/4		3/4		3/4	
7	1,541.84	7	1,181.29	7	820.81	7	473.60	7	113.18	7	7	7	7	7	7	7	7	7	7
1/4	1,534.35	1/4	1,173.77	1/4	813.43	1/4	466.24	1/4	105.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,526.85	1/2	1,166.26	1/2	806.05	1/2	458.87	1/2	98.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,519.36	3/4	1,158.75	3/4	798.67	3/4	451.50	3/4	90.62	3/4		3/4		3/4		3/4		3/4	
8	1,511.85	8	1,151.23	8	791.44	8	443.98	8	83.10	8	8	8	8	8	8	8	8	8	8
1/4	1,504.34	1/4	1,143.72	1/4	784.20	1/4	436.46	1/4	75.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,496.82	1/2	1,136.21	1/2	776.97	1/2	428.95	1/2	68.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,489.31	3/4	1,128.70	3/4	769.74	3/4	421.43	3/4	60.55	3/4		3/4		3/4		3/4		3/4	
9	1,481.80	9	1,121.18	9	762.51	9	413.91	9	53.97	9	9	9	9	9	9	9	9	9	9
1/4	1,474.29	1/4	1,113.67	1/4	755.28	1/4	406.39	1/4	47.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,466.77	1/2	1,106.16	1/2	748.05	1/2	398.87	1/2	40.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,459.26	3/4	1,098.65	3/4	740.83	3/4	391.35	3/4	34.23	3/4		3/4		3/4		3/4		3/4	
10	1,451.75	10	1,091.13	10	733.61	10	383.84	10	29.53	10	10	10	10	10	10	10	10	10	10
1/4	1,444.23	1/4	1,083.62	1/4	726.39	1/4	376.32	1/4	24.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.72	1/2	1,076.11	1/2	719.18	1/2	368.80	1/2	20.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,429.21	3/4	1,068.59	3/4	711.96	3/4	361.28	3/4	15.44	3/4		3/4		3/4		3/4		3/4	
11	1,421.70	11	1,061.08	11	704.75	11	353.76	11		11	11	11	11	11	11	11	11	11	11
1/4	1,414.18	1/4	1,053.57	1/4	697.53	1/4	346.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,406.67	1/2	1,046.06	1/2	690.32	1/2	338.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,399.16	3/4	1,038.54	3/4	683.10	3/4	331.21	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/06/2009 CL - SW
CALCULATED: 03/07/2009 CL
PRINTED: 03/07/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2009

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