



BARGE "EMS 369"

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-06"

January 21, 2009

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 369"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 7/8"

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	4,278.91	0	4,002.18	0	3,724.40	0	3,425.08	0	3,105.15	0	2,773.81	0	2,442.40	0	2,111.00	0	1,779.59		
1/4		1/4	4,274.13	1/4	3,996.59	1/4	3,718.39	1/4	3,418.62	1/4	3,098.26	1/4	2,766.90	1/4	2,435.50	1/4	2,104.09	1/4	1,772.69		
1/2		1/2	4,269.36	1/2	3,990.99	1/2	3,712.37	1/2	3,412.16	1/2	3,091.38	1/2	2,760.00	1/2	2,428.59	1/2	2,097.19	1/2	1,765.78		
3/4		3/4	4,264.59	3/4	3,985.40	3/4	3,706.36	3/4	3,405.70	3/4	3,084.49	3/4	2,753.10	3/4	2,421.69	3/4	2,090.28	3/4	1,758.88		
1		1	4,258.95	1	3,979.79	1	3,700.33	1	3,399.22	1	3,077.60	1	2,746.19	1	2,414.79	1	2,083.38	1	1,751.97		
1/4		1/4	4,252.45	1/4	3,974.16	1/4	3,694.28	1/4	3,392.72	1/4	3,070.69	1/4	2,739.29	1/4	2,407.88	1/4	2,076.47	1/4	1,745.07		
1/2		1/2	4,245.95	1/2	3,968.54	1/2	3,688.24	1/2	3,386.22	1/2	3,063.79	1/2	2,732.38	1/2	2,400.98	1/2	2,069.57	1/2	1,738.16		
3/4		3/4	4,239.45	3/4	3,962.91	3/4	3,682.19	3/4	3,379.72	3/4	3,056.89	3/4	2,725.48	3/4	2,394.07	3/4	2,062.67	3/4	1,731.26		
2		2	4,232.95	2	3,957.27	2	3,676.13	2	3,373.20	2	3,049.98	2	2,718.57	2	2,387.17	2	2,055.76	2	1,724.36		
1/4		1/4	4,226.46	1/4	3,951.60	1/4	3,670.04	1/4	3,366.67	1/4	3,043.08	1/4	2,711.67	1/4	2,380.26	1/4	2,048.86	1/4	1,717.45		
1/2		1/2	4,219.96	1/2	3,945.93	1/2	3,663.96	1/2	3,360.14	1/2	3,036.17	1/2	2,704.77	1/2	2,373.36	1/2	2,041.95	1/2	1,710.55		
3/4		3/4	4,213.46	3/4	3,940.27	3/4	3,657.87	3/4	3,353.61	3/4	3,029.27	3/4	2,697.86	3/4	2,366.46	3/4	2,035.05	3/4	1,703.64		
3		3	4,206.96	3	3,934.59	3	3,651.75	3	3,347.06	3	3,022.36	3	2,690.96	3	2,359.55	3	2,028.14	3	1,696.74		
1/4		1/4	4,200.46	1/4	3,928.89	1/4	3,645.60	1/4	3,340.49	1/4	3,015.46	1/4	2,684.05	1/4	2,352.65	1/4	2,021.24	1/4	1,689.83		
1/2		1/2	4,193.96	1/2	3,923.19	1/2	3,639.45	1/2	3,333.92	1/2	3,008.56	1/2	2,677.15	1/2	2,345.74	1/2	2,014.34	1/2	1,682.93		
3/4		3/4	4,187.46	3/4	3,917.50	3/4	3,633.30	3/4	3,327.35	3/4	3,001.65	3/4	2,670.24	3/4	2,338.84	3/4	2,007.43	3/4	1,676.03		
4		4	4,180.98	4	3,911.78	4	3,627.13	4	3,320.75	4	2,994.75	4	2,663.34	4	2,331.93	4	2,000.53	4	1,669.12		
1/4		1/4	4,174.52	1/4	3,906.04	1/4	3,620.94	1/4	3,314.14	1/4	2,987.84	1/4	2,656.44	1/4	2,325.03	1/4	1,993.62	1/4	1,662.22		
1/2		1/2	4,168.05	1/2	3,900.30	1/2	3,614.74	1/2	3,307.53	1/2	2,980.94	1/2	2,649.53	1/2	2,318.13	1/2	1,986.72	1/2	1,655.31		
3/4		3/4	4,161.59	3/4	3,894.56	3/4	3,608.55	3/4	3,300.92	3/4	2,974.03	3/4	2,642.63	3/4	2,311.22	3/4	1,979.81	3/4	1,648.41		
5		5	4,155.12	5	3,888.80	5	3,602.34	5	3,294.30	5	2,967.13	5	2,635.72	5	2,304.32	5	1,972.91	5	1,641.50		
1/4		1/4	4,148.66	1/4	3,883.04	1/4	3,596.12	1/4	3,287.65	1/4	2,960.23	1/4	2,628.82	1/4	2,297.41	1/4	1,966.01	1/4	1,634.60		
1/2		1/2	4,142.19	1/2	3,877.27	1/2	3,589.90	1/2	3,281.01	1/2	2,953.32	1/2	2,621.91	1/2	2,290.51	1/2	1,959.10	1/2	1,627.70		
3/4		3/4	4,135.73	3/4	3,871.50	3/4	3,583.68	3/4	3,274.37	3/4	2,946.42	3/4	2,615.01	3/4	2,283.60	3/4	1,952.20	3/4	1,620.79		
6		6	4,129.26	6	3,865.72	6	3,577.43	6	3,267.70	6	2,939.51	6	2,608.11	6	2,276.70	6	1,945.29	6	1,613.89		
1/4		1/4	4,122.80	1/4	3,859.93	1/4	3,571.17	1/4	3,261.02	1/4	2,932.61	1/4	2,601.20	1/4	2,269.80	1/4	1,938.39	1/4	1,606.98		
1/2		1/2	4,116.33	1/2	3,854.14	1/2	3,564.90	1/2	3,254.34	1/2	2,925.70	1/2	2,594.30	1/2	2,262.89	1/2	1,931.48	1/2	1,600.08		
3/4		3/4	4,109.87	3/4	3,848.35	3/4	3,558.64	3/4	3,247.66	3/4	2,918.80	3/4	2,587.39	3/4	2,255.99	3/4	1,924.58	3/4	1,593.17		
7		7	4,104.13	7	3,842.54	7	3,552.36	7	3,240.96	7	2,911.90	7	2,580.49	7	2,249.08	7	1,917.68	7	1,586.27		
1/4		1/4	4,099.12	1/4	3,836.71	1/4	3,546.06	1/4	3,234.24	1/4	2,904.99	1/4	2,573.58	1/4	2,242.18	1/4	1,910.77	1/4	1,579.37		
1/2		1/2	4,094.10	1/2	3,830.88	1/2	3,539.77	1/2	3,227.53	1/2	2,898.09	1/2	2,566.68	1/2	2,235.27	1/2	1,903.87	1/2	1,572.46		
3/4		3/4	4,089.09	3/4	3,825.05	3/4	3,533.48	3/4	3,220.82	3/4	2,891.18	3/4	2,559.78	3/4	2,228.37	3/4	1,896.96	3/4	1,565.56		
8		8	4,084.05	8	3,819.20	8	3,527.17	8	3,214.08	8	2,884.28	8	2,552.87	8	2,221.46	8	1,890.06	8	1,558.65		
1/4		1/4	4,079.01	1/4	3,813.34	1/4	3,520.84	1/4	3,207.32	1/4	2,877.37	1/4	2,545.97	1/4	2,214.56	1/4	1,883.15	1/4	1,551.75		
1/2		1/2	4,073.96	1/2	3,807.48	1/2	3,514.52	1/2	3,200.57	1/2	2,870.47	1/2	2,539.06	1/2	2,207.66	1/2	1,876.25	1/2	1,544.84		
3/4		3/4	4,068.92	3/4	3,801.62	3/4	3,508.19	3/4	3,193.81	3/4	2,863.56	3/4	2,532.16	3/4	2,200.75	3/4	1,869.35	3/4	1,537.94		
9		9	4,063.85	9	3,795.74	9	3,501.84	9	3,187.04	9	2,856.66	9	2,525.25	9	2,193.85	9	1,862.44	9	1,531.03		
1/4		1/4	4,058.76	1/4	3,789.84	1/4	3,495.48	1/4	3,180.25	1/4	2,849.76	1/4	2,518.35	1/4	2,186.94	1/4	1,855.54	1/4	1,524.13		
1/2		1/2	4,053.67	1/2	3,783.93	1/2	3,489.11	1/2	3,173.47	1/2	2,842.85	1/2	2,511.45	1/2	2,180.04	1/2	1,848.63	1/2	1,517.23		
3/4		3/4	4,048.58	3/4	3,778.03	3/4	3,482.75	3/4	3,166.68	3/4	2,835.95	3/4	2,504.54	3/4	2,173.13	3/4	1,841.73	3/4	1,510.32		
10		10	4,043.48	10	3,772.11	10	3,476.37	10	3,159.88	10	2,829.04	10	2,497.64	10	2,166.23	10	1,834.82	10	1,503.42		
1/4		1/4	4,038.36	1/4	3,766.18	1/4	3,469.99	1/4	3,153.06	1/4	2,822.14	1/4	2,490.73	1/4	2,159.33	1/4	1,827.92	1/4	1,496.51		
1/2		1/2	4,033.25	1/2	3,760.25	1/2	3,463.60	1/2	3,146.25	1/2	2,815.23	1/2	2,483.83	1/2	2,152.42	1/2	1,821.02	1/2	1,489.61		
3/4		3/4	4,028.13	3/4	3,754.31	3/4	3,457.21	3/4	3,139.43	3/4	2,808.33	3/4	2,476.92	3/4	2,145.52	3/4	1,814.11	3/4	1,482.70		
11		11	4,023.00	11	3,748.36	11	3,450.80	11	3,132.59	11	2,801.43	11	2,470.02	11	2,138.61	11	1,807.21	11	1,475.80		
1/4		1/4	4,017.85	1/4	3,742.37	1/4	3,444.38	1/4	3,125.74	1/4	2,794.52	1/4	2,463.12	1/4	2,131.71	1/4	1,800.30	1/4	1,468.90		
1/2		1/2	4,012.70	1/2	3,736.38	1/2	3,437.95	1/2	3,118.88	1/2	2,787.62	1/2	2,456.21	1/2	2,124.80	1/2	1,793.40	1/2	1,461.99		
7/8		7/8	4,281.30	3/4	4,007.55	3/4	3,730.40	3/4	3,431.52	3/4	3,112.03	3/4	2,780.71	3/4	2,449.31	3/4	2,117.90	3/4	1,786.49	3/4	1,455.09

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 45'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "EMS 369"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 7/8"

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	1,448.18	0	1,117.91	0	803.11	0	508.38	0	233.61	0		0		0		0		0	
1/4	1,441.28	1/4	1,111.16	1/4	796.77	1/4	502.49	1/4	228.09	1/4		1/4		1/4		1/4		1/4	
1/2	1,434.37	1/2	1,104.41	1/2	790.42	1/2	496.60	1/2	222.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,427.47	3/4	1,097.66	3/4	784.07	3/4	490.71	3/4	217.03	3/4		3/4		3/4		3/4		3/4	
1	1,420.57	1	1,090.92	1	777.75	1	484.84	1	211.52	1		1		1		1		1	
1/4	1,413.66	1/4	1,084.20	1/4	771.45	1/4	478.98	1/4	206.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,406.76	1/2	1,077.48	1/2	765.15	1/2	473.12	1/2	200.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,399.85	3/4	1,070.77	3/4	758.84	3/4	467.26	3/4	195.03	3/4		3/4		3/4		3/4		3/4	
2	1,392.95	2	1,064.07	2	752.56	2	461.42	2	189.55	2		2		2		2		2	
1/4	1,386.04	1/4	1,057.39	1/4	746.28	1/4	455.59	1/4	184.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,379.14	1/2	1,050.72	1/2	740.01	1/2	449.76	1/2	178.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,372.24	3/4	1,044.05	3/4	733.74	3/4	443.93	3/4	173.15	3/4		3/4		3/4		3/4		3/4	
3	1,365.33	3	1,037.38	3	727.48	3	438.11	3	167.70	3		3		3		3		3	
1/4	1,358.43	1/4	1,030.74	1/4	721.24	1/4	432.32	1/4	162.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,351.52	1/2	1,024.09	1/2	714.99	1/2	426.52	1/2	156.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,344.62	3/4	1,017.45	3/4	708.75	3/4	420.72	3/4	151.40	3/4		3/4		3/4		3/4		3/4	
4	1,337.71	4	1,010.82	4	702.52	4	414.94	4	145.98	4		4		4		4		4	
1/4	1,330.81	1/4	1,004.20	1/4	696.31	1/4	409.17	1/4	140.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,323.91	1/2	997.59	1/2	690.10	1/2	403.40	1/2	135.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,317.00	3/4	990.97	3/4	683.89	3/4	397.64	3/4	129.78	3/4		3/4		3/4		3/4		3/4	
5	1,310.10	5	984.37	5	677.70	5	391.89	5	124.40	5		5		5		5		5	
1/4	1,303.19	1/4	977.79	1/4	671.52	1/4	386.15	1/4	119.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,296.29	1/2	971.21	1/2	665.35	1/2	380.41	1/2	113.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,289.38	3/4	964.63	3/4	659.17	3/4	374.67	3/4	108.34	3/4		3/4		3/4		3/4		3/4	
6	1,282.48	6	958.06	6	653.01	6	368.95	6	103.00	6		6		6		6		6	
1/4	1,275.58	1/4	951.51	1/4	646.86	1/4	363.24	1/4	97.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,268.67	1/2	944.96	1/2	640.72	1/2	357.54	1/2	92.35	1/2		1/2		1/2		1/2		1/2	
3/4	1,261.77	3/4	938.41	3/4	634.57	3/4	351.84	3/4	87.03	3/4		3/4		3/4		3/4		3/4	
7	1,254.86	7	931.89	7	628.45	7	346.15	7	81.71	7		7		7		7		7	
1/4	1,247.96	1/4	925.39	1/4	622.35	1/4	340.47	1/4	76.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,241.05	1/2	918.88	1/2	616.25	1/2	334.80	1/2	71.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,234.15	3/4	912.38	3/4	610.15	3/4	329.12	3/4	65.83	3/4		3/4		3/4		3/4		3/4	
8	1,227.25	8	905.89	8	604.08	8	323.45	8	60.55	8		8		8		8		8	
1/4	1,220.34	1/4	899.42	1/4	598.04	1/4	317.78	1/4	55.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,213.44	1/2	892.95	1/2	592.00	1/2	312.11	1/2	50.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,206.53	3/4	886.47	3/4	585.96	3/4	306.44	3/4	44.75	3/4		3/4		3/4		3/4		3/4	
9	1,199.66	9	880.01	9	579.94	9	300.79	9	39.94	9		9		9		9		9	
1/4	1,192.81	1/4	873.57	1/4	573.94	1/4	295.16	1/4	35.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,185.96	1/2	867.12	1/2	567.94	1/2	289.52	1/2	31.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,179.12	3/4	860.68	3/4	561.94	3/4	283.88	3/4	26.83	3/4		3/4		3/4		3/4		3/4	
10	1,172.28	10	854.25	10	555.96	10	278.27	10	23.34	10		10		10		10		10	
1/4	1,165.47	1/4	847.84	1/4	549.99	1/4	272.66	1/4	20.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,158.65	1/2	841.42	1/2	544.02	1/2	267.06	1/2	18.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,151.83	3/4	835.01	3/4	538.05	3/4	261.46	3/4	15.51	3/4		3/4		3/4		3/4		3/4	
11	1,145.03	11	828.62	11	532.10	11	255.87	11	14.21	11		11		11		11		11	
1/4	1,138.25	1/4	822.24	1/4	526.16	1/4	250.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,131.46	1/2	815.86	1/2	520.23	1/2	244.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,124.68	3/4	809.48	3/4	514.29	3/4	239.16	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2009 CL - SW
CALCULATED: 01/21/2009 CL
PRINTED: 01/21/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2009

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



BARGE "EMS 369"

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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,273.58	0	3,996.72	0	3,719.01	0	3,419.76	0	3,099.92	0	2,768.88	0	2,437.77	0	2,106.67	0	1,775.56
1/4		1/4	4,268.81	1/4	3,991.13	1/4	3,713.00	1/4	3,413.30	1/4	3,093.04	1/4	2,761.98	1/4	2,430.87	1/4	2,099.77	1/4	1,768.67
1/2		1/2	4,264.04	1/2	3,985.54	1/2	3,707.00	1/2	3,406.85	1/2	3,086.16	1/2	2,755.08	1/2	2,423.98	1/2	2,092.87	1/2	1,761.77
3/4		3/4	4,259.27	3/4	3,979.96	3/4	3,700.99	3/4	3,400.40	3/4	3,079.29	3/4	2,748.18	3/4	2,417.08	3/4	2,085.97	3/4	1,754.87
1		1	4,252.78	1	3,974.34	1	3,694.95	1	3,393.90	1	3,072.39	1	2,741.28	1	2,410.18	1	2,079.08	1	1,747.97
1/4		1/4	4,246.29	1/4	3,968.72	1/4	3,688.91	1/4	3,387.41	1/4	3,065.49	1/4	2,734.39	1/4	2,403.28	1/4	2,072.18	1/4	1,741.07
1/2		1/2	4,239.79	1/2	3,963.10	1/2	3,682.87	1/2	3,380.91	1/2	3,058.59	1/2	2,727.49	1/2	2,396.38	1/2	2,065.28	1/2	1,734.18
3/4		3/4	4,233.30	3/4	3,957.48	3/4	3,676.83	3/4	3,374.42	3/4	3,051.69	3/4	2,720.59	3/4	2,389.49	3/4	2,058.38	3/4	1,727.28
2		2	4,226.81	2	3,951.82	2	3,670.75	2	3,367.89	2	3,044.80	2	2,713.69	2	2,382.59	2	2,051.48	2	1,720.38
1/4		1/4	4,220.31	1/4	3,946.16	1/4	3,664.67	1/4	3,361.37	1/4	3,037.90	1/4	2,706.79	1/4	2,375.69	1/4	2,044.59	1/4	1,713.48
1/2		1/2	4,213.82	1/2	3,940.50	1/2	3,658.59	1/2	3,354.85	1/2	3,031.00	1/2	2,699.90	1/2	2,368.79	1/2	2,037.69	1/2	1,706.58
3/4		3/4	4,207.33	3/4	3,934.84	3/4	3,652.51	3/4	3,348.32	3/4	3,024.10	3/4	2,693.00	3/4	2,361.89	3/4	2,030.79	3/4	1,699.69
3		3	4,200.84	3	3,929.14	3	3,646.37	3	3,341.76	3	3,017.20	3	2,686.10	3	2,355.00	3	2,023.89	3	1,692.79
1/4		1/4	4,194.34	1/4	3,923.45	1/4	3,640.22	1/4	3,335.19	1/4	3,010.31	1/4	2,679.20	1/4	2,348.10	1/4	2,016.99	1/4	1,685.89
1/2		1/2	4,187.85	1/2	3,917.76	1/2	3,634.08	1/2	3,328.63	1/2	3,003.41	1/2	2,672.30	1/2	2,341.20	1/2	2,010.10	1/2	1,678.99
3/4		3/4	4,181.36	3/4	3,912.07	3/4	3,627.93	3/4	3,322.06	3/4	2,996.51	3/4	2,665.41	3/4	2,334.30	3/4	2,003.20	3/4	1,672.09
4		4	4,174.90	4	3,906.34	4	3,621.75	4	3,315.46	4	2,989.61	4	2,658.51	4	2,327.40	4	1,996.30	4	1,665.20
1/4		1/4	4,168.44	1/4	3,900.60	1/4	3,615.56	1/4	3,308.85	1/4	2,982.71	1/4	2,651.61	1/4	2,320.51	1/4	1,989.40	1/4	1,658.30
1/2		1/2	4,161.98	1/2	3,894.87	1/2	3,609.37	1/2	3,302.25	1/2	2,975.82	1/2	2,644.71	1/2	2,313.61	1/2	1,982.50	1/2	1,651.40
3/4		3/4	4,155.52	3/4	3,889.14	3/4	3,603.19	3/4	3,295.64	3/4	2,968.92	3/4	2,637.81	3/4	2,306.71	3/4	1,975.61	3/4	1,644.50
5		5	4,149.07	5	3,883.37	5	3,596.97	5	3,289.01	5	2,962.02	5	2,630.92	5	2,299.81	5	1,968.71	5	1,637.60
1/4		1/4	4,142.61	1/4	3,877.61	1/4	3,590.76	1/4	3,282.37	1/4	2,955.12	1/4	2,624.02	1/4	2,292.91	1/4	1,961.81	1/4	1,630.71
1/2		1/2	4,136.15	1/2	3,871.85	1/2	3,584.54	1/2	3,275.74	1/2	2,948.22	1/2	2,617.12	1/2	2,286.02	1/2	1,954.91	1/2	1,623.81
3/4		3/4	4,129.69	3/4	3,866.09	3/4	3,578.32	3/4	3,269.10	3/4	2,941.33	3/4	2,610.22	3/4	2,279.12	3/4	1,948.01	3/4	1,616.91
6		6	4,123.23	6	3,860.30	6	3,572.06	6	3,262.42	6	2,934.43	6	2,603.32	6	2,272.22	6	1,941.12	6	1,610.01
1/4		1/4	4,116.77	1/4	3,854.52	1/4	3,565.80	1/4	3,255.75	1/4	2,927.53	1/4	2,596.43	1/4	2,265.32	1/4	1,934.22	1/4	1,603.11
1/2		1/2	4,110.31	1/2	3,848.73	1/2	3,559.55	1/2	3,249.07	1/2	2,920.63	1/2	2,589.53	1/2	2,258.42	1/2	1,927.32	1/2	1,596.22
3/4		3/4	4,103.86	3/4	3,842.95	3/4	3,553.29	3/4	3,242.39	3/4	2,913.73	3/4	2,582.63	3/4	2,251.53	3/4	1,920.42	3/4	1,589.32
7		7	4,098.85	7	3,837.12	7	3,547.00	7	3,235.68	7	2,906.84	7	2,575.73	7	2,244.63	7	1,913.52	7	1,582.42
1/4		1/4	4,093.84	1/4	3,831.30	1/4	3,540.71	1/4	3,228.98	1/4	2,899.94	1/4	2,568.83	1/4	2,237.73	1/4	1,906.63	1/4	1,575.52
1/2		1/2	4,088.83	1/2	3,825.48	1/2	3,534.42	1/2	3,222.27	1/2	2,893.04	1/2	2,561.94	1/2	2,230.83	1/2	1,899.73	1/2	1,568.62
3/4		3/4	4,083.82	3/4	3,819.65	3/4	3,528.14	3/4	3,215.56	3/4	2,886.14	3/4	2,555.04	3/4	2,223.93	3/4	1,892.83	3/4	1,561.73
8		8	4,078.78	8	3,813.80	8	3,521.82	8	3,208.81	8	2,879.24	8	2,548.14	8	2,217.04	8	1,885.93	8	1,554.83
1/4		1/4	4,073.74	1/4	3,807.94	1/4	3,515.50	1/4	3,202.06	1/4	2,872.35	1/4	2,541.24	1/4	2,210.14	1/4	1,879.03	1/4	1,547.93
1/2		1/2	4,068.70	1/2	3,802.09	1/2	3,509.18	1/2	3,195.31	1/2	2,865.45	1/2	2,534.34	1/2	2,203.24	1/2	1,872.14	1/2	1,541.03
3/4		3/4	4,063.66	3/4	3,796.23	3/4	3,502.86	3/4	3,188.56	3/4	2,858.55	3/4	2,527.45	3/4	2,196.34	3/4	1,865.24	3/4	1,534.13
9		9	4,058.57	9	3,790.33	9	3,496.50	9	3,181.78	9	2,851.65	9	2,520.55	9	2,189.44	9	1,858.34	9	1,527.24
1/4		1/4	4,053.49	1/4	3,784.44	1/4	3,490.14	1/4	3,175.00	1/4	2,844.75	1/4	2,513.65	1/4	2,182.55	1/4	1,851.44	1/4	1,520.34
1/2		1/2	4,048.41	1/2	3,778.54	1/2	3,483.78	1/2	3,168.22	1/2	2,837.86	1/2	2,506.75	1/2	2,175.65	1/2	1,844.54	1/2	1,513.44
3/4		3/4	4,043.33	3/4	3,772.64	3/4	3,477.42	3/4	3,161.44	3/4	2,830.96	3/4	2,499.85	3/4	2,168.75	3/4	1,837.65	3/4	1,506.54
10		10	4,038.21	10	3,766.72	10	3,471.04	10	3,154.63	10	2,824.06	10	2,492.96	10	2,161.85	10	1,830.75	10	1,499.64
1/4		1/4	4,033.10	1/4	3,760.79	1/4	3,464.66	1/4	3,147.82	1/4	2,817.16	1/4	2,486.06	1/4	2,154.95	1/4	1,823.85	1/4	1,492.75
1/2		1/2	4,027.99	1/2	3,754.86	1/2	3,458.28	1/2	3,141.01	1/2	2,810.26	1/2	2,479.16	1/2	2,148.06	1/2	1,816.95	1/2	1,485.85
3/4		3/4	4,022.88	3/4	3,748.94	3/4	3,451.90	3/4	3,134.20	3/4	2,803.37	3/4	2,472.26	3/4	2,141.16	3/4	1,810.05	3/4	1,478.95
11		11	4,017.74	11	3,742.96	11	3,445.47	11	3,127.35	11	2,796.47	11	2,465.36	11	2,134.26	11	1,803.16	11	1,472.05
1/4		1/4	4,012.59	1/4	3,736.98	1/4	3,439.05	1/4	3,120.50	1/4	2,789.57	1/4	2,458.47	1/4	2,127.36	1/4	1,796.26	1/4	1,465.15
1/2		1/2	4,007.45	1/2	3,731.00	1/2	3,432.63	1/2	3,113.65	1/2	2,782.67	1/2	2,451.57	1/2	2,120.46	1/2	1,789.36	1/2	1,458.26
3/4		3/4	4,278.35	3/4	4,002.31	3/4	3,725.02	3/4	3,426.21	3/4	3,106.80	3/4	2,775.77	3/4	2,444.67	3/4	2,113.57	3/4	1,782.46

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 45'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 369"

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	1,444.46	0	1,114.56	0	800.27	0	505.65	0	230.60	0		0		0		0		0	
1/4	1,437.56	1/4	1,107.82	1/4	793.93	1/4	499.74	1/4	225.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,430.66	1/2	1,101.07	1/2	787.59	1/2	493.83	1/2	219.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,423.77	3/4	1,094.33	3/4	781.25	3/4	487.93	3/4	214.04	3/4		3/4		3/4		3/4		3/4	
1	1,416.87	1	1,087.62	1	774.95	1	482.05	1	208.55	1		1		1		1		1	
1/4	1,409.97	1/4	1,080.90	1/4	768.65	1/4	476.17	1/4	203.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,403.07	1/2	1,074.19	1/2	762.36	1/2	470.30	1/2	197.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,396.17	3/4	1,067.48	3/4	756.06	3/4	464.42	3/4	192.08	3/4		3/4		3/4		3/4		3/4	
2	1,389.28	2	1,060.81	2	749.80	2	458.57	2	186.62	2		2		2		2		2	
1/4	1,382.38	1/4	1,054.14	1/4	743.53	1/4	452.72	1/4	181.15	1/4		1/4		1/4		1/4		1/4	
1/2	1,375.48	1/2	1,047.48	1/2	737.26	1/2	446.88	1/2	175.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,368.58	3/4	1,040.81	3/4	731.00	3/4	441.03	3/4	170.23	3/4		3/4		3/4		3/4		3/4	
3	1,361.68	3	1,034.17	3	724.76	3	435.21	3	164.80	3		3		3		3		3	
1/4	1,354.79	1/4	1,027.53	1/4	718.52	1/4	429.39	1/4	159.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,347.89	1/2	1,020.89	1/2	712.29	1/2	423.58	1/2	153.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,340.99	3/4	1,014.25	3/4	706.05	3/4	417.76	3/4	148.52	3/4		3/4		3/4		3/4		3/4	
4	1,334.09	4	1,007.64	4	699.84	4	411.98	4	143.13	4		4		4		4		4	
1/4	1,327.19	1/4	1,001.03	1/4	693.64	1/4	406.19	1/4	137.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,320.30	1/2	994.42	1/2	687.44	1/2	400.41	1/2	132.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,313.40	3/4	987.81	3/4	681.23	3/4	394.63	3/4	126.94	3/4		3/4		3/4		3/4		3/4	
5	1,306.50	5	981.24	5	675.06	5	388.87	5	121.59	5		5		5		5		5	
1/4	1,299.60	1/4	974.66	1/4	668.89	1/4	383.11	1/4	116.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,292.70	1/2	968.09	1/2	662.72	1/2	377.35	1/2	110.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,285.81	3/4	961.51	3/4	656.55	3/4	371.60	3/4	105.55	3/4		3/4		3/4		3/4		3/4	
6	1,278.91	6	954.97	6	650.41	6	365.87	6	100.23	6		6		6		6		6	
1/4	1,272.01	1/4	948.42	1/4	644.27	1/4	360.15	1/4	94.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,265.11	1/2	941.88	1/2	638.13	1/2	354.43	1/2	89.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,258.21	3/4	935.34	3/4	631.99	3/4	348.71	3/4	84.27	3/4		3/4		3/4		3/4		3/4	
7	1,251.32	7	928.84	7	625.90	7	343.02	7	78.98	7		7		7		7		7	
1/4	1,244.42	1/4	922.35	1/4	619.80	1/4	337.33	1/4	73.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,237.52	1/2	915.85	1/2	613.71	1/2	331.63	1/2	68.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,230.62	3/4	909.35	3/4	607.62	3/4	325.94	3/4	63.11	3/4		3/4		3/4		3/4		3/4	
8	1,223.72	8	902.89	8	601.56	8	320.28	8	57.85	8		8		8		8		8	
1/4	1,216.83	1/4	896.42	1/4	595.50	1/4	314.61	1/4	52.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,209.93	1/2	889.95	1/2	589.44	1/2	308.95	1/2	47.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,203.03	3/4	883.48	3/4	583.39	3/4	303.29	3/4	42.08	3/4		3/4		3/4		3/4		3/4	
9	1,196.19	9	877.04	9	577.37	9	297.66	9	37.71	9		9		9		9		9	
1/4	1,189.35	1/4	870.61	1/4	571.35	1/4	292.03	1/4	33.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,182.51	1/2	864.17	1/2	565.33	1/2	286.40	1/2	28.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,175.67	3/4	857.73	3/4	559.31	3/4	280.77	3/4	24.62	3/4		3/4		3/4		3/4		3/4	
10	1,168.86	10	851.32	10	553.33	10	275.17	10	22.01	10		10		10		10		10	
1/4	1,162.04	1/4	844.91	1/4	547.34	1/4	269.57	1/4	19.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,155.23	1/2	838.51	1/2	541.35	1/2	263.98	1/2	16.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,148.42	3/4	832.10	3/4	535.37	3/4	258.38	3/4	14.20	3/4		3/4		3/4		3/4		3/4	
11	1,141.64	11	825.73	11	529.41	11	252.82	11	78	11		11		11		11		11	
1/4	1,134.87	1/4	819.35	1/4	523.46	1/4	247.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,128.09	1/2	812.98	1/2	517.51	1/2	241.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,121.31	3/4	806.61	3/4	511.55	3/4	236.12	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2009 CL - SW
CALCULATED: 01/21/2009 CL
PRINTED: 01/21/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 369"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-11"

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
	5,201.24		4,878.06		4,553.40		4,203.54		3,829.55		3,441.94		3,054.26		2,666.58		2,278.90		
1/4	5,195.66	1/4	4,871.51	1/4	4,546.37	1/4	4,195.98	1/4	3,821.49	1/4	3,433.86	1/4	3,046.18	1/4	2,658.50	1/4	2,270.82		
1/2	5,190.08	1/2	4,864.97	1/2	4,539.34	1/2	4,188.43	1/2	3,813.43	1/2	3,425.79	1/2	3,038.10	1/2	2,650.42	1/2	2,262.74		
3/4	5,184.50	3/4	4,858.43	3/4	4,532.30	3/4	4,180.87	3/4	3,805.37	3/4	3,417.71	3/4	3,030.03	3/4	2,642.35	3/4	2,254.67		
1	5,178.92	1	4,851.89	1	4,525.27	1	4,173.32	1	3,797.31	1	3,409.63	1	3,021.95	1	2,634.27	1	2,246.59		
1/4	5,171.31	1/4	4,845.31	1/4	4,518.20	1/4	4,165.71	1/4	3,789.24	1/4	3,401.56	1/4	3,013.87	1/4	2,626.19	1/4	2,238.51		
1/2	5,163.71	1/2	4,838.73	1/2	4,511.13	1/2	4,158.11	1/2	3,781.16	1/2	3,393.48	1/2	3,005.80	1/2	2,618.12	1/2	2,230.43		
3/4	5,156.11	3/4	4,832.15	3/4	4,504.05	3/4	4,150.50	3/4	3,773.08	3/4	3,385.40	3/4	2,997.72	3/4	2,610.04	3/4	2,222.36		
2	5,148.51	2	4,825.57	2	4,496.98	2	4,142.90	2	3,765.01	2	3,377.33	2	2,989.64	2	2,601.96	2	2,214.28		
1/4	5,140.91	1/4	4,818.94	1/4	4,489.87	1/4	4,135.26	1/4	3,756.93	1/4	3,369.25	1/4	2,981.57	1/4	2,593.89	1/4	2,206.20		
1/2	5,133.30	1/2	4,812.32	1/2	4,482.75	1/2	4,127.62	1/2	3,748.85	1/2	3,361.17	1/2	2,973.49	1/2	2,585.81	1/2	2,198.13		
3/4	5,125.70	3/4	4,805.69	3/4	4,475.63	3/4	4,119.98	3/4	3,740.78	3/4	3,353.10	3/4	2,965.41	3/4	2,577.73	3/4	2,190.05		
3	5,118.10	3	4,799.06	3	4,468.51	3	4,112.34	3	3,732.70	3	3,345.02	3	2,957.34	3	2,569.66	3	2,181.97		
1/4	5,110.50	1/4	4,792.40	1/4	4,461.32	1/4	4,104.66	1/4	3,724.62	1/4	3,336.94	1/4	2,949.26	1/4	2,561.58	1/4	2,173.90		
1/2	5,102.89	1/2	4,785.73	1/2	4,454.12	1/2	4,096.97	1/2	3,716.55	1/2	3,328.87	1/2	2,941.18	1/2	2,553.50	1/2	2,165.82		
3/4	5,095.29	3/4	4,779.07	3/4	4,446.93	3/4	4,089.28	3/4	3,708.47	3/4	3,320.79	3/4	2,933.11	3/4	2,545.43	3/4	2,157.74		
4	5,087.69	4	4,772.41	4	4,439.73	4	4,081.59	4	3,700.39	4	3,312.71	4	2,925.03	4	2,537.35	4	2,149.67		
1/4	5,080.13	1/4	4,765.70	1/4	4,432.49	1/4	4,073.86	1/4	3,692.32	1/4	3,304.64	1/4	2,916.95	1/4	2,529.27	1/4	2,141.59		
1/2	5,072.57	1/2	4,758.98	1/2	4,425.25	1/2	4,066.13	1/2	3,684.24	1/2	3,296.56	1/2	2,908.88	1/2	2,521.20	1/2	2,133.51		
3/4	5,065.01	3/4	4,752.27	3/4	4,418.00	3/4	4,058.39	3/4	3,676.16	3/4	3,288.48	3/4	2,900.80	3/4	2,513.12	3/4	2,125.44		
5	5,057.44	5	4,745.56	5	4,410.76	5	4,050.66	5	3,668.09	5	3,280.41	5	2,892.72	5	2,505.04	5	2,117.36		
1/4	5,049.88	1/4	4,738.81	1/4	4,403.48	1/4	4,042.89	1/4	3,660.01	1/4	3,272.33	1/4	2,884.65	1/4	2,496.97	1/4	2,109.28		
1/2	5,042.32	1/2	4,732.06	1/2	4,396.20	1/2	4,035.12	1/2	3,651.93	1/2	3,264.25	1/2	2,876.57	1/2	2,488.89	1/2	2,101.21		
3/4	5,034.76	3/4	4,725.32	3/4	4,388.93	3/4	4,027.35	3/4	3,643.86	3/4	3,256.18	3/4	2,868.49	3/4	2,480.81	3/4	2,093.13		
6	5,027.20	6	4,718.57	6	4,381.65	6	4,019.58	6	3,635.78	6	3,248.10	6	2,860.42	6	2,472.74	6	2,085.05		
1/4	5,019.64	1/4	4,711.80	1/4	4,374.32	1/4	4,011.76	1/4	3,627.70	1/4	3,240.02	1/4	2,852.34	1/4	2,464.66	1/4	2,076.98		
1/2	5,012.07	1/2	4,705.02	1/2	4,366.99	1/2	4,003.94	1/2	3,619.63	1/2	3,231.95	1/2	2,844.26	1/2	2,456.58	1/2	2,068.90		
3/4	5,004.51	3/4	4,698.25	3/4	4,359.66	3/4	3,996.13	3/4	3,611.55	3/4	3,223.87	3/4	2,836.19	3/4	2,448.51	3/4	2,060.82		
7	4,996.95	7	4,691.48	7	4,352.33	7	3,988.31	7	3,603.47	7	3,215.79	7	2,828.11	7	2,440.43	7	2,052.75		
1/4	4,991.08	1/4	4,684.66	1/4	4,344.97	1/4	3,980.45	1/4	3,595.40	1/4	3,207.72	1/4	2,820.03	1/4	2,432.35	1/4	2,044.67		
1/2	4,985.22	1/2	4,677.84	1/2	4,337.61	1/2	3,972.60	1/2	3,587.32	1/2	3,199.64	1/2	2,811.96	1/2	2,424.28	1/2	2,036.59		
3/4	4,979.35	3/4	4,671.02	3/4	4,330.24	3/4	3,964.75	3/4	3,579.24	3/4	3,191.56	3/4	2,803.88	3/4	2,416.20	3/4	2,028.52		
8	4,973.49	8	4,664.20	8	4,322.88	8	3,956.89	8	3,571.17	8	3,183.49	8	2,795.80	8	2,408.12	8	2,020.44		
1/4	4,967.59	1/4	4,657.35	1/4	4,315.48	1/4	3,948.99	1/4	3,563.09	1/4	3,175.41	1/4	2,787.73	1/4	2,400.05	1/4	2,012.36		
1/2	4,961.69	1/2	4,650.49	1/2	4,308.08	1/2	3,941.08	1/2	3,555.01	1/2	3,167.33	1/2	2,779.65	1/2	2,391.97	1/2	2,004.29		
3/4	4,955.79	3/4	4,643.64	3/4	4,300.68	3/4	3,933.18	3/4	3,546.94	3/4	3,159.26	3/4	2,771.57	3/4	2,383.89	3/4	1,996.21		
9	4,949.89	9	4,636.78	9	4,293.28	9	3,925.28	9	3,538.86	9	3,151.18	9	2,763.50	9	2,375.82	9	1,988.13		
1/4	4,943.93	1/4	4,629.88	1/4	4,285.84	1/4	3,917.34	1/4	3,530.78	1/4	3,143.10	1/4	2,755.42	1/4	2,367.74	1/4	1,980.06		
1/2	4,937.98	1/2	4,622.97	1/2	4,278.39	1/2	3,909.40	1/2	3,522.71	1/2	3,135.03	1/2	2,747.34	1/2	2,359.66	1/2	1,971.98		
3/4	4,932.03	3/4	4,616.07	3/4	4,270.95	3/4	3,901.46	3/4	3,514.63	3/4	3,126.95	3/4	2,739.27	3/4	2,351.59	3/4	1,963.90		
10	4,926.08	10	4,609.17	10	4,263.50	10	3,893.53	10	3,506.55	10	3,118.87	10	2,731.19	10	2,343.51	10	1,955.83		
1/4	4,920.10	1/4	4,602.23	1/4	4,256.03	1/4	3,885.55	1/4	3,498.48	1/4	3,110.80	1/4	2,723.11	1/4	2,335.43	1/4	1,947.75		
1/2	4,914.11	1/2	4,595.29	1/2	4,248.56	1/2	3,877.58	1/2	3,490.40	1/2	3,102.72	1/2	2,715.04	1/2	2,327.36	1/2	1,939.67		
3/4	4,908.13	3/4	4,588.35	3/4	4,241.09	3/4	3,869.60	3/4	3,482.32	3/4	3,094.64	3/4	2,706.96	3/4	2,319.28	3/4	1,931.60		
11	4,902.14	11	4,581.41	11	4,233.62	11	3,861.63	11	3,474.25	11	3,086.57	11	2,698.88	11	2,311.20	11	1,923.52		
1/4	4,896.12	1/4	4,574.41	1/4	4,226.10	1/4	3,853.61	1/4	3,466.17	1/4	3,078.49	1/4	2,690.81	1/4	2,303.13	1/4	1,915.44		
1/2	4,890.10	1/2	4,567.41	1/2	4,218.58	1/2	3,845.59	1/2	3,458.09	1/2	3,070.41	1/2	2,682.73	1/2	2,295.05	1/2	1,907.37		
3/4	4,884.08	3/4	4,560.41	3/4	4,211.06	3/4	3,837.57	3/4	3,450.02	3/4	3,062.34	3/4	2,674.65	3/4	2,286.97	3/4	1,899.29		

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 369"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 14'-11"

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	1,891.21	0	1,503.53	0	1,115.85	0	733.90	0	355.76	0		0		0		0		0	
1/4	1,883.14	1/4	1,495.46	1/4	1,107.77	1/4	726.15	1/4	347.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,875.06	1/2	1,487.38	1/2	1,099.70	1/2	718.39	1/2	339.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,866.98	3/4	1,479.30	3/4	1,091.62	3/4	710.64	3/4	331.54	3/4		3/4		3/4		3/4		3/4	
1	1,858.91	1	1,471.23	1	1,083.54	1	702.88	1	323.46	1		1		1		1		1	
1/4	1,850.83	1/4	1,463.15	1/4	1,075.47	1/4	695.13	1/4	315.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,842.75	1/2	1,455.07	1/2	1,067.39	1/2	687.37	1/2	307.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,834.68	3/4	1,447.00	3/4	1,059.31	3/4	679.62	3/4	299.23	3/4		3/4		3/4		3/4		3/4	
2	1,826.60	2	1,438.92	2	1,051.24	2	671.87	2	291.15	2		2		2		2		2	
1/4	1,818.52	1/4	1,430.84	1/4	1,043.16	1/4	664.11	1/4	283.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,810.45	1/2	1,422.76	1/2	1,035.08	1/2	656.36	1/2	275.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,802.37	3/4	1,414.69	3/4	1,027.01	3/4	648.60	3/4	266.92	3/4		3/4		3/4		3/4		3/4	
3	1,794.29	3	1,406.61	3	1,018.93	3	640.85	3	258.85	3		3		3		3		3	
1/4	1,786.22	1/4	1,398.53	1/4	1,010.85	1/4	633.10	1/4	250.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,778.14	1/2	1,390.46	1/2	1,002.78	1/2	625.34	1/2	242.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,770.06	3/4	1,382.38	3/4	994.70	3/4	617.59	3/4	234.62	3/4		3/4		3/4		3/4		3/4	
4	1,761.99	4	1,374.30	4	986.62	4	609.83	4	226.54	4		4		4		4		4	
1/4	1,753.91	1/4	1,366.23	1/4	978.55	1/4	602.08	1/4	218.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,745.83	1/2	1,358.15	1/2	970.47	1/2	594.32	1/2	210.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,737.76	3/4	1,350.07	3/4	962.39	3/4	586.57	3/4	202.31	3/4		3/4		3/4		3/4		3/4	
5	1,729.68	5	1,342.00	5	954.32	5	578.81	5	194.24	5		5		5		5		5	
1/4	1,721.60	1/4	1,333.92	1/4	946.24	1/4	571.05	1/4	186.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,713.53	1/2	1,325.84	1/2	938.16	1/2	563.29	1/2	178.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,705.45	3/4	1,317.77	3/4	930.09	3/4	555.53	3/4	170.01	3/4		3/4		3/4		3/4		3/4	
6	1,697.37	6	1,309.69	6	922.01	6	547.77	6	161.93	6		6		6		6		6	
1/4	1,689.30	1/4	1,301.61	1/4	913.93	1/4	539.99	1/4	153.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,681.22	1/2	1,293.54	1/2	905.86	1/2	532.22	1/2	145.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.14	3/4	1,285.46	3/4	897.78	3/4	524.45	3/4	137.70	3/4		3/4		3/4		3/4		3/4	
7	1,665.07	7	1,277.38	7	889.70	7	516.68	7	129.63	7		7		7		7		7	
1/4	1,656.99	1/4	1,269.31	1/4	881.78	1/4	508.76	1/4	121.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,648.91	1/2	1,261.23	1/2	873.86	1/2	500.83	1/2	113.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,640.84	3/4	1,253.15	3/4	865.93	3/4	492.91	3/4	105.40	3/4		3/4		3/4		3/4		3/4	
8	1,632.76	8	1,245.08	8	858.01	8	484.99	8	97.32	8		8		8		8		8	
1/4	1,624.68	1/4	1,237.00	1/4	850.25	1/4	476.91	1/4	89.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,616.61	1/2	1,228.92	1/2	842.48	1/2	468.83	1/2	81.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,608.53	3/4	1,220.85	3/4	834.72	3/4	460.76	3/4	73.09	3/4		3/4		3/4		3/4		3/4	
9	1,600.45	9	1,212.77	9	826.96	9	452.68	9	65.01	9		9		9		9		9	
1/4	1,592.38	1/4	1,204.69	1/4	819.21	1/4	444.60	1/4	57.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,584.30	1/2	1,196.62	1/2	811.45	1/2	436.53	1/2	50.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,576.22	3/4	1,188.54	3/4	803.70	3/4	428.45	3/4	43.81	3/4		3/4		3/4		3/4		3/4	
10	1,568.15	10	1,180.46	10	795.94	10	420.38	10	36.74	10		10		10		10		10	
1/4	1,560.07	1/4	1,172.39	1/4	788.19	1/4	412.30	1/4	31.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,551.99	1/2	1,164.31	1/2	780.43	1/2	404.22	1/2	26.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,543.92	3/4	1,156.23	3/4	772.68	3/4	396.15	3/4	21.60	3/4		3/4		3/4		3/4		3/4	
11	1,535.84	11	1,148.16	11	764.92	11	388.07	11	16.55	11		11		11		11		11	
1/4	1,527.76	1/4	1,140.08	1/4	757.17	1/4	379.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,519.69	1/2	1,132.00	1/2	749.41	1/2	371.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,511.61	3/4	1,123.93	3/4	741.66	3/4	363.84	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2009 CL - SW
CALCULATED: 01/21/2009 CL
PRINTED: 01/21/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 369"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 7/8"

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	5,216.06	0	4,892.21	0	4,567.13	0	4,216.81	0	3,842.36	0	3,454.51	0	3,066.62	0	2,678.72	0	2,290.82		
1/4		1/4	5,210.47	1/4	4,885.66	1/4	4,560.09	1/4	4,209.25	1/4	3,834.29	1/4	3,446.43	1/4	3,058.54	1/4	2,670.64	1/4	2,282.74		
1/2		1/2	5,204.89	1/2	4,879.12	1/2	4,553.05	1/2	4,201.69	1/2	3,826.23	1/2	3,438.35	1/2	3,050.45	1/2	2,662.56	1/2	2,274.66		
3/4		3/4	5,199.30	3/4	4,872.57	3/4	4,546.02	3/4	4,194.13	3/4	3,818.17	3/4	3,430.27	3/4	3,042.37	3/4	2,654.48	3/4	2,266.58		
1		1	5,192.71	1	4,866.01	1	4,538.96	1	4,186.55	1	3,810.09	1	3,422.19	1	3,034.29	1	2,646.39	1	2,258.50		
1/4		1/4	5,185.10	1/4	4,859.43	1/4	4,531.89	1/4	4,178.94	1/4	3,802.01	1/4	3,414.11	1/4	3,026.21	1/4	2,638.31	1/4	2,250.42		
1/2		1/2	5,177.50	1/2	4,852.84	1/2	4,524.81	1/2	4,171.33	1/2	3,793.93	1/2	3,406.03	1/2	3,018.13	1/2	2,630.23	1/2	2,242.33		
3/4		3/4	5,169.89	3/4	4,846.26	3/4	4,517.73	3/4	4,163.72	3/4	3,785.84	3/4	3,397.95	3/4	3,010.05	3/4	2,622.15	3/4	2,234.25		
2		2	5,162.28	2	4,839.65	2	4,510.64	2	4,156.09	2	3,777.76	2	3,389.87	2	3,001.97	2	2,614.07	2	2,226.17		
1/4		1/4	5,154.68	1/4	4,833.02	1/4	4,503.51	1/4	4,148.45	1/4	3,769.68	1/4	3,381.78	1/4	2,993.89	1/4	2,605.99	1/4	2,218.09		
1/2		1/2	5,147.07	1/2	4,826.39	1/2	4,496.39	1/2	4,140.80	1/2	3,761.60	1/2	3,373.70	1/2	2,985.81	1/2	2,597.91	1/2	2,210.01		
3/4		3/4	5,139.46	3/4	4,819.76	3/4	4,489.27	3/4	4,133.16	3/4	3,753.52	3/4	3,365.62	3/4	2,977.72	3/4	2,589.83	3/4	2,201.93		
3		3	5,131.86	3	4,813.11	3	4,482.11	3	4,125.49	3	3,745.44	3	3,357.54	3	2,969.64	3	2,581.75	3	2,193.85		
1/4		1/4	5,124.25	1/4	4,806.44	1/4	4,474.91	1/4	4,117.80	1/4	3,737.36	1/4	3,349.46	1/4	2,961.56	1/4	2,573.66	1/4	2,185.77		
1/2		1/2	5,116.64	1/2	4,799.78	1/2	4,467.71	1/2	4,110.11	1/2	3,729.28	1/2	3,341.38	1/2	2,953.48	1/2	2,565.58	1/2	2,177.68		
3/4		3/4	5,109.04	3/4	4,793.11	3/4	4,460.51	3/4	4,102.42	3/4	3,721.19	3/4	3,333.30	3/4	2,945.40	3/4	2,557.50	3/4	2,169.60		
4		4	5,101.45	4	4,786.42	4	4,453.29	4	4,094.71	4	3,713.11	4	3,325.22	4	2,937.32	4	2,549.42	4	2,161.52		
1/4		1/4	5,093.89	1/4	4,779.70	1/4	4,446.04	1/4	4,086.97	1/4	3,705.03	1/4	3,317.13	1/4	2,929.24	1/4	2,541.34	1/4	2,153.44		
1/2		1/2	5,086.32	1/2	4,772.98	1/2	4,438.80	1/2	4,079.23	1/2	3,696.95	1/2	3,309.05	1/2	2,921.16	1/2	2,533.26	1/2	2,145.36		
3/4		3/4	5,078.75	3/4	4,766.27	3/4	4,431.55	3/4	4,071.49	3/4	3,688.87	3/4	3,300.97	3/4	2,913.07	3/4	2,525.18	3/4	2,137.28		
5		5	5,071.19	5	4,759.53	5	4,424.29	5	4,063.74	5	3,680.79	5	3,292.89	5	2,904.99	5	2,517.10	5	2,129.20		
1/4		1/4	5,063.62	1/4	4,752.78	1/4	4,417.00	1/4	4,055.96	1/4	3,672.71	1/4	3,284.81	1/4	2,896.91	1/4	2,509.01	1/4	2,121.12		
1/2		1/2	5,056.06	1/2	4,746.03	1/2	4,409.72	1/2	4,048.19	1/2	3,664.63	1/2	3,276.73	1/2	2,888.83	1/2	2,500.93	1/2	2,113.04		
3/4		3/4	5,048.49	3/4	4,739.28	3/4	4,402.44	3/4	4,040.41	3/4	3,656.54	3/4	3,268.65	3/4	2,880.75	3/4	2,492.85	3/4	2,104.95		
6		6	5,040.92	6	4,732.52	6	4,395.13	6	4,032.62	6	3,648.46	6	3,260.57	6	2,872.67	6	2,484.77	6	2,096.87		
1/4		1/4	5,033.36	1/4	4,725.74	1/4	4,387.80	1/4	4,024.79	1/4	3,640.38	1/4	3,252.48	1/4	2,864.59	1/4	2,476.69	1/4	2,088.79		
1/2		1/2	5,025.79	1/2	4,718.97	1/2	4,380.46	1/2	4,016.97	1/2	3,632.30	1/2	3,244.40	1/2	2,856.51	1/2	2,468.61	1/2	2,080.71		
3/4		3/4	5,018.23	3/4	4,712.19	3/4	4,373.13	3/4	4,009.15	3/4	3,624.22	3/4	3,236.32	3/4	2,848.42	3/4	2,460.53	3/4	2,072.63		
7		7	5,011.51	7	4,705.39	7	4,365.78	7	4,001.31	7	3,616.14	7	3,228.24	7	2,840.34	7	2,452.45	7	2,064.55		
1/4		1/4	5,005.64	1/4	4,698.57	1/4	4,358.41	1/4	3,993.45	1/4	3,608.06	1/4	3,220.16	1/4	2,832.26	1/4	2,444.36	1/4	2,056.47		
1/2		1/2	4,999.77	1/2	4,691.75	1/2	4,351.05	1/2	3,985.59	1/2	3,599.98	1/2	3,212.08	1/2	2,824.18	1/2	2,436.28	1/2	2,048.39		
3/4		3/4	4,993.90	3/4	4,684.92	3/4	4,343.68	3/4	3,977.73	3/4	3,591.90	3/4	3,204.00	3/4	2,816.10	3/4	2,428.20	3/4	2,040.30		
8		8	4,988.02	8	4,678.08	8	4,336.30	8	3,969.85	8	3,583.81	8	3,195.92	8	2,808.02	8	2,420.12	8	2,032.22		
1/4		1/4	4,982.11	1/4	4,671.22	1/4	4,328.89	1/4	3,961.94	1/4	3,575.73	1/4	3,187.84	1/4	2,799.94	1/4	2,412.04	1/4	2,024.14		
1/2		1/2	4,976.21	1/2	4,664.36	1/2	4,321.49	1/2	3,954.03	1/2	3,567.65	1/2	3,179.75	1/2	2,791.86	1/2	2,403.96	1/2	2,016.06		
3/4		3/4	4,970.31	3/4	4,657.50	3/4	4,314.09	3/4	3,946.12	3/4	3,559.57	3/4	3,171.67	3/4	2,783.78	3/4	2,395.88	3/4	2,007.98		
9		9	4,964.38	9	4,650.62	9	4,306.66	9	3,938.20	9	3,551.49	9	3,163.59	9	2,775.69	9	2,387.80	9	1,999.90		
1/4		1/4	4,958.42	1/4	4,643.71	1/4	4,299.21	1/4	3,930.26	1/4	3,543.41	1/4	3,155.51	1/4	2,767.61	1/4	2,379.71	1/4	1,991.82		
1/2		1/2	4,952.47	1/2	4,636.80	1/2	4,291.76	1/2	3,922.32	1/2	3,535.33	1/2	3,147.43	1/2	2,759.53	1/2	2,371.63	1/2	1,983.74		
3/4		3/4	4,946.51	3/4	4,629.90	3/4	4,284.31	3/4	3,914.37	3/4	3,527.25	3/4	3,139.35	3/4	2,751.45	3/4	2,363.55	3/4	1,975.65		
10		10	4,940.54	10	4,622.97	10	4,276.85	10	3,906.41	10	3,519.16	10	3,131.27	10	2,743.37	10	2,355.47	10	1,967.57		
1/4		1/4	4,934.55	1/4	4,616.03	1/4	4,269.37	1/4	3,898.43	1/4	3,511.08	1/4	3,123.19	1/4	2,735.29	1/4	2,347.39	1/4	1,959.49		
1/2		1/2	4,928.57	1/2	4,609.08	1/2	4,261.90	1/2	3,890.46	1/2	3,503.00	1/2	3,115.10	1/2	2,727.21	1/2	2,339.31	1/2	1,951.41		
3/4		3/4	4,922.58	3/4	4,602.14	3/4	4,254.42	3/4	3,882.48	3/4	3,494.92	3/4	3,107.02	3/4	2,719.13	3/4	2,331.23	3/4	1,943.33		
11		11	4,916.57	11	4,595.17	11	4,246.92	11	3,874.47	11	3,486.84	11	3,098.94	11	2,711.04	11	2,323.15	11	1,935.25		
1/4		1/4	4,910.55	1/4	4,588.16	1/4	4,239.40	1/4	3,866.45	1/4	3,478.76	1/4	3,090.86	1/4	2,702.96	1/4	2,315.07	1/4	1,927.17		
1/2		1/2	4,904.52	1/2	4,581.16	1/2	4,231.87	1/2	3,858.42	1/2	3,470.68	1/2	3,082.78	1/2	2,694.88	1/2	2,306.98	1/2	1,919.09		
7/8		7/8	5,218.85	3/4	4,898.50	3/4	4,574.15	3/4	4,224.35	3/4	3,850.40	3/4	3,462.60	3/4	3,074.70	3/4	2,686.80	3/4	2,298.90	3/4	1,911.01

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 369"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 7/8"

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	1,902.92	0	1,515.03	0	1,127.13	0	739.46	0	351.92	0		0		0		0		0	
1/4	1,894.84	1/4	1,506.95	1/4	1,119.05	1/4	731.40	1/4	343.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,886.76	1/2	1,498.86	1/2	1,110.97	1/2	723.33	1/2	335.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,878.68	3/4	1,490.78	3/4	1,102.89	3/4	715.27	3/4	327.68	3/4		3/4		3/4		3/4		3/4	
1	1,870.60	1	1,482.70	1	1,094.80	1	707.20	1	319.60	1		1		1		1		1	
1/4	1,862.52	1/4	1,474.62	1/4	1,086.72	1/4	699.14	1/4	311.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,854.44	1/2	1,466.54	1/2	1,078.64	1/2	691.07	1/2	303.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,846.36	3/4	1,458.46	3/4	1,070.56	3/4	683.01	3/4	295.36	3/4		3/4		3/4		3/4		3/4	
2	1,838.27	2	1,450.38	2	1,062.48	2	674.95	2	287.28	2		2		2		2		2	
1/4	1,830.19	1/4	1,442.30	1/4	1,054.40	1/4	666.88	1/4	279.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,822.11	1/2	1,434.21	1/2	1,046.32	1/2	658.82	1/2	271.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,814.03	3/4	1,426.13	3/4	1,038.24	3/4	650.75	3/4	263.03	3/4		3/4		3/4		3/4		3/4	
3	1,805.95	3	1,418.05	3	1,030.15	3	642.69	3	254.95	3		3		3		3		3	
1/4	1,797.87	1/4	1,409.97	1/4	1,022.07	1/4	634.62	1/4	246.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,789.79	1/2	1,401.89	1/2	1,013.99	1/2	626.56	1/2	238.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,781.71	3/4	1,393.81	3/4	1,005.91	3/4	618.49	3/4	230.71	3/4		3/4		3/4		3/4		3/4	
4	1,773.62	4	1,385.73	4	997.83	4	610.43	4	222.63	4		4		4		4		4	
1/4	1,765.54	1/4	1,377.65	1/4	989.75	1/4	602.36	1/4	214.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,757.46	1/2	1,369.56	1/2	981.67	1/2	594.30	1/2	206.47	1/2		1/2		1/2		1/2		1/2	
3/4	1,749.38	3/4	1,361.48	3/4	973.59	3/4	586.23	3/4	198.39	3/4		3/4		3/4		3/4		3/4	
5	1,741.30	5	1,353.40	5	965.50	5	578.16	5	190.30	5		5		5		5		5	
1/4	1,733.22	1/4	1,345.32	1/4	957.42	1/4	570.09	1/4	182.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,725.14	1/2	1,337.24	1/2	949.34	1/2	562.01	1/2	174.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,717.06	3/4	1,329.16	3/4	941.26	3/4	553.94	3/4	166.06	3/4		3/4		3/4		3/4		3/4	
6	1,708.98	6	1,321.08	6	933.18	6	545.86	6	157.98	6		6		6		6		6	
1/4	1,700.89	1/4	1,313.00	1/4	925.10	1/4	537.78	1/4	149.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,692.81	1/2	1,304.92	1/2	917.02	1/2	529.70	1/2	141.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,684.73	3/4	1,296.83	3/4	908.94	3/4	521.62	3/4	133.74	3/4		3/4		3/4		3/4		3/4	
7	1,676.65	7	1,288.75	7	900.86	7	513.54	7	125.66	7		7		7		7		7	
1/4	1,668.57	1/4	1,280.67	1/4	892.77	1/4	505.46	1/4	117.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,660.49	1/2	1,272.59	1/2	884.69	1/2	497.38	1/2	109.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,652.41	3/4	1,264.51	3/4	876.61	3/4	489.30	3/4	101.41	3/4		3/4		3/4		3/4		3/4	
8	1,644.33	8	1,256.43	8	868.53	8	481.22	8	93.33	8		8		8		8		8	
1/4	1,636.24	1/4	1,248.35	1/4	860.46	1/4	473.14	1/4	85.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,628.16	1/2	1,240.27	1/2	852.39	1/2	465.05	1/2	77.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,620.08	3/4	1,232.18	3/4	844.32	3/4	456.97	3/4	69.09	3/4		3/4		3/4		3/4		3/4	
9	1,612.00	9	1,224.10	9	836.25	9	448.89	9	61.51	9		9		9		9		9	
1/4	1,603.92	1/4	1,216.02	1/4	828.18	1/4	440.81	1/4	54.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,595.84	1/2	1,207.94	1/2	820.12	1/2	432.73	1/2	47.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,587.76	3/4	1,199.86	3/4	812.05	3/4	424.65	3/4	40.30	3/4		3/4		3/4		3/4		3/4	
10	1,579.68	10	1,191.78	10	803.99	10	416.57	10	34.24	10		10		10		10		10	
1/4	1,571.59	1/4	1,183.70	1/4	795.92	1/4	408.49	1/4	29.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,563.51	1/2	1,175.62	1/2	787.86	1/2	400.41	1/2	24.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,555.43	3/4	1,167.53	3/4	779.79	3/4	392.33	3/4	19.09	3/4		3/4		3/4		3/4		3/4	
11	1,547.35	11	1,159.45	11	771.73	11	384.25	11	16.56	11		11		11		11		11	
1/4	1,539.27	1/4	1,151.37	1/4	763.66	1/4	376.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,531.19	1/2	1,143.29	1/2	755.59	1/2	368.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,523.11	3/4	1,135.21	3/4	747.53	3/4	360.00	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2009 CL - SW
CALCULATED: 01/21/2009 CL
PRINTED: 01/21/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 369"

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	4,474.91	0	4,227.93	0	4,009.21	0	3,767.39	0	3,502.39	0	3,192.12	0	2,832.20	0	2,471.88	0	2,111.23		
1/4		1/4	4,469.30	1/4	4,223.59	1/4	4,004.41	1/4	3,762.11	1/4	3,496.62	1/4	3,184.62	1/4	2,824.69	1/4	2,464.36	1/4	2,103.72		
1/2		1/2	4,463.69	1/2	4,219.25	1/2	3,999.61	1/2	3,756.83	1/2	3,490.84	1/2	3,177.13	1/2	2,817.19	1/2	2,456.85	1/2	2,096.21		
3/4		3/4	4,458.09	3/4	4,214.91	3/4	3,994.81	3/4	3,751.56	3/4	3,485.07	3/4	3,169.64	3/4	2,809.69	3/4	2,449.34	3/4	2,088.69		
1		1	4,451.47	1	4,210.53	1	3,989.98	1	3,746.24	1	3,479.28	1	3,162.14	1	2,802.18	1	2,441.82	1	2,081.18		
1/4		1/4	4,444.85	1/4	4,206.16	1/4	3,985.15	1/4	3,740.92	1/4	3,473.48	1/4	3,154.65	1/4	2,794.68	1/4	2,434.31	1/4	2,073.67		
1/2		1/2	4,438.23	1/2	4,201.78	1/2	3,980.31	1/2	3,735.59	1/2	3,467.69	1/2	3,147.15	1/2	2,787.17	1/2	2,426.80	1/2	2,066.15		
3/4		3/4	4,431.61	3/4	4,197.41	3/4	3,975.48	3/4	3,730.27	3/4	3,461.90	3/4	3,139.66	3/4	2,779.67	3/4	2,419.28	3/4	2,058.64		
2		2	4,425.85	2	4,192.99	2	3,970.61	2	3,724.92	2	3,456.10	2	3,132.17	2	2,772.17	2	2,411.77	2	2,051.13		
1/4		1/4	4,420.09	1/4	4,188.57	1/4	3,965.73	1/4	3,719.57	1/4	3,450.31	1/4	3,124.67	1/4	2,764.66	1/4	2,404.26	1/4	2,043.61		
1/2		1/2	4,414.34	1/2	4,184.15	1/2	3,960.86	1/2	3,714.21	1/2	3,444.52	1/2	3,117.18	1/2	2,757.16	1/2	2,396.74	1/2	2,036.10		
3/4		3/4	4,408.58	3/4	4,179.73	3/4	3,955.98	3/4	3,708.86	3/4	3,438.73	3/4	3,109.69	3/4	2,749.65	3/4	2,389.23	3/4	2,028.59		
3		3	4,402.82	3	4,175.28	3	3,951.04	3	3,703.47	3	3,432.93	3	3,102.19	3	2,742.15	3	2,381.72	3	2,021.07		
1/4		1/4	4,397.06	1/4	4,170.82	1/4	3,946.10	1/4	3,698.07	1/4	3,427.14	1/4	3,094.70	1/4	2,734.64	1/4	2,374.20	1/4	2,013.56		
1/2		1/2	4,391.30	1/2	4,166.37	1/2	3,941.17	1/2	3,692.67	1/2	3,421.35	1/2	3,087.21	1/2	2,727.14	1/2	2,366.69	1/2	2,006.05		
3/4		3/4	4,385.55	3/4	4,161.92	3/4	3,936.23	3/4	3,687.28	3/4	3,415.55	3/4	3,079.71	3/4	2,719.64	3/4	2,359.18	3/4	1,998.53		
4		4	4,379.82	4	4,157.42	4	3,931.25	4	3,681.84	4	3,409.77	4	3,072.22	4	2,712.13	4	2,351.66	4	1,991.02		
1/4		1/4	4,374.09	1/4	4,152.92	1/4	3,926.26	1/4	3,676.40	1/4	3,403.99	1/4	3,064.72	1/4	2,704.63	1/4	2,344.15	1/4	1,983.51		
1/2		1/2	4,368.36	1/2	4,148.42	1/2	3,921.28	1/2	3,670.96	1/2	3,398.21	1/2	3,057.23	1/2	2,697.12	1/2	2,336.64	1/2	1,975.99		
3/4		3/4	4,362.63	3/4	4,143.92	3/4	3,916.30	3/4	3,665.53	3/4	3,392.42	3/4	3,049.74	3/4	2,689.62	3/4	2,329.12	3/4	1,968.48		
5		5	4,356.90	5	4,139.39	5	3,911.28	5	3,660.05	5	3,386.64	5	3,042.24	5	2,682.11	5	2,321.61	5	1,960.97		
1/4		1/4	4,351.17	1/4	4,134.86	1/4	3,906.27	1/4	3,654.58	1/4	3,380.86	1/4	3,034.75	1/4	2,674.61	1/4	2,314.10	1/4	1,953.45		
1/2		1/2	4,345.44	1/2	4,130.33	1/2	3,901.25	1/2	3,649.11	1/2	3,375.07	1/2	3,027.26	1/2	2,667.11	1/2	2,306.58	1/2	1,945.94		
3/4		3/4	4,339.71	3/4	4,125.80	3/4	3,896.24	3/4	3,643.63	3/4	3,369.29	3/4	3,019.76	3/4	2,659.60	3/4	2,299.07	3/4	1,938.43		
6		6	4,333.98	6	4,121.24	6	3,891.17	6	3,638.08	6	3,363.51	6	3,012.27	6	2,652.10	6	2,291.56	6	1,930.91		
1/4		1/4	4,328.25	1/4	4,116.69	1/4	3,886.11	1/4	3,632.53	1/4	3,357.73	1/4	3,004.77	1/4	2,644.59	1/4	2,284.04	1/4	1,923.40		
1/2		1/2	4,322.52	1/2	4,112.13	1/2	3,881.05	1/2	3,626.98	1/2	3,351.94	1/2	2,997.28	1/2	2,637.09	1/2	2,276.53	1/2	1,915.89		
3/4		3/4	4,316.79	3/4	4,107.57	3/4	3,875.99	3/4	3,621.43	3/4	3,346.16	3/4	2,989.79	3/4	2,629.59	3/4	2,269.02	3/4	1,908.37		
7		7	4,312.64	7	4,102.97	7	3,870.89	7	3,615.84	7	3,339.52	7	2,982.28	7	2,622.08	7	2,261.50	7	1,900.86		
1/4		1/4	4,308.48	1/4	4,098.37	1/4	3,865.80	1/4	3,610.26	1/4	3,332.87	1/4	2,974.78	1/4	2,614.58	1/4	2,253.99	1/4	1,893.35		
1/2		1/2	4,304.33	1/2	4,093.77	1/2	3,860.71	1/2	3,604.67	1/2	3,326.23	1/2	2,967.27	1/2	2,607.07	1/2	2,246.48	1/2	1,885.83		
3/4		3/4	4,300.18	3/4	4,089.17	3/4	3,855.61	3/4	3,599.09	3/4	3,319.58	3/4	2,959.77	3/4	2,599.57	3/4	2,238.96	3/4	1,878.32		
8		8	4,295.99	8	4,084.54	8	3,850.49	8	3,593.46	8	3,312.08	8	2,952.27	8	2,592.06	8	2,231.45	8	1,870.83		
1/4		1/4	4,291.81	1/4	4,079.90	1/4	3,845.36	1/4	3,587.83	1/4	3,304.58	1/4	2,944.76	1/4	2,584.56	1/4	2,223.94	1/4	1,863.34		
1/2		1/2	4,287.62	1/2	4,075.27	1/2	3,840.23	1/2	3,582.20	1/2	3,297.07	1/2	2,937.26	1/2	2,577.06	1/2	2,216.42	1/2	1,855.85		
3/4		3/4	4,283.44	3/4	4,070.63	3/4	3,835.10	3/4	3,576.56	3/4	3,289.57	3/4	2,929.75	3/4	2,569.55	3/4	2,208.91	3/4	1,848.36		
9		9	4,279.21	9	4,065.96	9	3,829.93	9	3,570.90	9	3,282.07	9	2,922.25	9	2,562.04	9	2,201.40	9	1,840.87		
1/4		1/4	4,274.97	1/4	4,061.28	1/4	3,824.76	1/4	3,565.24	1/4	3,274.57	1/4	2,914.75	1/4	2,554.53	1/4	2,193.88	1/4	1,833.38		
1/2		1/2	4,270.74	1/2	4,056.60	1/2	3,819.59	1/2	3,559.58	1/2	3,267.06	1/2	2,907.24	1/2	2,547.01	1/2	2,186.37	1/2	1,825.89		
3/4		3/4	4,266.51	3/4	4,051.92	3/4	3,814.42	3/4	3,553.92	3/4	3,259.56	3/4	2,899.74	3/4	2,539.50	3/4	2,178.86	3/4	1,818.40		
10		10	4,262.25	10	4,047.21	10	3,809.22	10	3,548.22	10	3,252.07	10	2,892.23	10	2,531.98	10	2,171.34	10	1,810.91		
1/4		1/4	4,257.99	1/4	4,042.50	1/4	3,804.02	1/4	3,542.52	1/4	3,244.57	1/4	2,884.73	1/4	2,524.47	1/4	2,163.83	1/4	1,803.42		
1/2		1/2	4,253.72	1/2	4,037.78	1/2	3,798.82	1/2	3,536.82	1/2	3,237.08	1/2	2,877.22	1/2	2,516.96	1/2	2,156.31	1/2	1,795.93		
3/4		3/4	4,249.46	3/4	4,033.07	3/4	3,793.63	3/4	3,531.13	3/4	3,229.59	3/4	2,869.72	3/4	2,509.44	3/4	2,148.80	3/4	1,788.44		
11		11	4,245.16	11	4,028.30	11	3,788.39	11	3,525.39	11	3,222.09	11	2,862.22	11	2,501.93	11	2,141.29	11	1,780.95		
1/4		1/4	4,240.86	1/4	4,023.54	1/4	3,783.14	1/4	3,519.65	1/4	3,214.60	1/4	2,854.71	1/4	2,494.42	1/4	2,133.77	1/4	1,773.46		
1/2		1/2	4,236.57	1/2	4,018.77	1/2	3,777.90	1/2	3,513.91	1/2	3,207.10	1/2	2,847.21	1/2	2,486.90	1/2	2,126.26	1/2	1,765.97		
3/4		3/4	4,480.51	3/4	4,232.27	3/4	4,014.00	3/4	3,772.66	3/4	3,508.17	3/4	3,199.61	3/4	2,839.70	3/4	2,479.39	3/4	2,118.75	3/4	1,758.48

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "EMS 369"

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	1,750.99	0	1,391.14	0	1,030.66	0	675.64	0	323.57	0		0		0		0		0	
1/4	1,743.50	1/4	1,383.63	1/4	1,023.15	1/4	668.43	1/4	316.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,736.01	1/2	1,376.12	1/2	1,015.64	1/2	661.21	1/2	308.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,728.53	3/4	1,368.61	3/4	1,008.13	3/4	654.00	3/4	301.03	3/4		3/4		3/4		3/4		3/4	
1	1,721.04	1	1,361.10	1	1,000.62	1	646.79	1	293.51	1		1		1		1		1	
1/4	1,713.55	1/4	1,353.59	1/4	993.11	1/4	639.57	1/4	286.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.06	1/2	1,346.08	1/2	985.60	1/2	632.36	1/2	278.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,698.57	3/4	1,338.57	3/4	978.09	3/4	625.15	3/4	270.96	3/4		3/4		3/4		3/4		3/4	
2	1,691.08	2	1,331.06	2	970.58	2	617.94	2	263.45	2		2		2		2		2	
1/4	1,683.59	1/4	1,323.55	1/4	963.07	1/4	610.72	1/4	255.93	1/4		1/4		1/4		1/4		1/4	
1/2	1,676.10	1/2	1,316.04	1/2	955.56	1/2	603.51	1/2	248.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,668.61	3/4	1,308.53	3/4	948.05	3/4	596.30	3/4	240.90	3/4		3/4		3/4		3/4		3/4	
3	1,661.12	3	1,301.02	3	940.54	3	589.09	3	233.39	3		3		3		3		3	
1/4	1,653.63	1/4	1,293.51	1/4	933.03	1/4	581.87	1/4	225.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.14	1/2	1,286.00	1/2	925.52	1/2	574.66	1/2	218.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,638.65	3/4	1,278.49	3/4	918.01	3/4	567.45	3/4	210.84	3/4		3/4		3/4		3/4		3/4	
4	1,631.16	4	1,270.98	4	910.50	4	560.23	4	203.32	4		4		4		4		4	
1/4	1,623.67	1/4	1,263.47	1/4	902.99	1/4	553.02	1/4	195.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,616.18	1/2	1,255.96	1/2	895.48	1/2	545.81	1/2	188.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,608.69	3/4	1,248.45	3/4	887.97	3/4	538.59	3/4	180.78	3/4		3/4		3/4		3/4		3/4	
5	1,601.20	5	1,240.94	5	880.46	5	531.37	5	173.26	5		5		5		5		5	
1/4	1,593.71	1/4	1,233.43	1/4	872.94	1/4	524.15	1/4	165.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,586.22	1/2	1,225.92	1/2	865.43	1/2	516.93	1/2	158.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,578.73	3/4	1,218.41	3/4	857.92	3/4	509.71	3/4	150.71	3/4		3/4		3/4		3/4		3/4	
6	1,571.24	6	1,210.90	6	850.41	6	502.48	6	143.20	6		6		6		6		6	
1/4	1,563.75	1/4	1,203.39	1/4	842.90	1/4	495.26	1/4	135.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,556.26	1/2	1,195.88	1/2	835.39	1/2	488.03	1/2	128.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,548.77	3/4	1,188.37	3/4	827.88	3/4	480.80	3/4	120.65	3/4		3/4		3/4		3/4		3/4	
7	1,541.28	7	1,180.86	7	820.51	7	473.43	7	113.14	7		7		7		7		7	
1/4	1,533.79	1/4	1,173.35	1/4	813.13	1/4	466.07	1/4	105.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,526.30	1/2	1,165.84	1/2	805.76	1/2	458.70	1/2	98.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,518.81	3/4	1,158.33	3/4	798.38	3/4	451.34	3/4	90.59	3/4		3/4		3/4		3/4		3/4	
8	1,511.30	8	1,150.82	8	791.15	8	443.82	8	83.07	8		8		8		8		8	
1/4	1,503.79	1/4	1,143.31	1/4	783.92	1/4	436.31	1/4	75.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,496.28	1/2	1,135.80	1/2	776.69	1/2	428.79	1/2	68.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,488.77	3/4	1,128.29	3/4	769.46	3/4	421.28	3/4	60.53	3/4		3/4		3/4		3/4		3/4	
9	1,481.26	9	1,120.78	9	762.23	9	413.76	9	53.95	9		9		9		9		9	
1/4	1,473.75	1/4	1,113.27	1/4	755.01	1/4	406.25	1/4	47.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,466.24	1/2	1,105.76	1/2	747.78	1/2	398.73	1/2	40.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,458.73	3/4	1,098.25	3/4	740.56	3/4	391.21	3/4	34.22	3/4		3/4		3/4		3/4		3/4	
10	1,451.22	10	1,090.74	10	733.35	10	383.70	10	29.52	10		10		10		10		10	
1/4	1,443.71	1/4	1,083.23	1/4	726.13	1/4	376.18	1/4	24.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.20	1/2	1,075.72	1/2	718.92	1/2	368.67	1/2	20.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,428.69	3/4	1,068.21	3/4	711.71	3/4	361.15	3/4	15.43	3/4		3/4		3/4		3/4		3/4	
11	1,421.18	11	1,060.70	11	704.49	11	353.64	11		11		11		11		11		11	
1/4	1,413.67	1/4	1,053.19	1/4	697.28	1/4	346.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,406.16	1/2	1,045.68	1/2	690.07	1/2	338.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,398.65	3/4	1,038.17	3/4	682.85	3/4	331.09	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2009 CL - SW
CALCULATED: 01/21/2009 CL
PRINTED: 01/21/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2009

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 369"

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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,483.01	0	4,233.25	0	4,011.14	0	3,767.07	0	3,500.97	0	3,190.24	0	2,829.98	0	2,469.86	0	2,109.85
1/4	1/4	4,477.36	1/4	4,228.84	1/4	4,006.28	1/4	3,761.75	1/4	3,495.19	1/4	3,182.73	1/4	2,822.48	1/4	2,462.37	1/4	2,102.34	
1/2	1/2	4,471.72	1/2	4,224.43	1/2	4,001.41	1/2	3,756.43	1/2	3,489.42	1/2	3,175.22	1/2	2,814.97	1/2	2,454.88	1/2	2,094.83	
3/4	3/4	4,466.08	3/4	4,220.02	3/4	3,996.55	3/4	3,751.10	3/4	3,483.64	3/4	3,167.71	3/4	2,807.47	3/4	2,447.39	3/4	2,087.33	
1	1	4,459.42	1	4,215.58	1	3,991.65	1	3,745.74	1	3,477.84	1	3,160.21	1	2,799.96	1	2,439.89	1	2,079.82	
1/4	1/4	4,452.77	1/4	4,211.14	1/4	3,986.75	1/4	3,740.37	1/4	3,472.04	1/4	3,152.70	1/4	2,792.46	1/4	2,432.40	1/4	2,072.31	
1/2	1/2	4,446.11	1/2	4,206.70	1/2	3,981.85	1/2	3,735.00	1/2	3,466.25	1/2	3,145.20	1/2	2,784.95	1/2	2,424.91	1/2	2,064.80	
3/4	3/4	4,439.45	3/4	4,202.25	3/4	3,976.95	3/4	3,729.63	3/4	3,460.45	3/4	3,137.69	3/4	2,777.45	3/4	2,417.42	3/4	2,057.29	
2	2	4,433.65	2	4,197.77	2	3,972.01	2	3,724.23	2	3,454.65	2	3,130.19	2	2,769.94	2	2,409.93	2	2,049.79	
1/4	1/4	4,427.86	1/4	4,193.28	1/4	3,967.06	1/4	3,718.83	1/4	3,448.86	1/4	3,122.68	1/4	2,762.44	1/4	2,402.44	1/4	2,042.28	
1/2	1/2	4,422.06	1/2	4,188.79	1/2	3,962.12	1/2	3,713.43	1/2	3,443.06	1/2	3,115.18	1/2	2,754.93	1/2	2,394.95	1/2	2,034.77	
3/4	3/4	4,416.26	3/4	4,184.31	3/4	3,957.18	3/4	3,708.03	3/4	3,437.26	3/4	3,107.67	3/4	2,747.43	3/4	2,387.45	3/4	2,027.26	
3	3	4,410.46	3	4,179.79	3	3,952.20	3	3,702.60	3	3,431.46	3	3,100.17	3	2,739.92	3	2,379.96	3	2,019.75	
1/4	1/4	4,404.67	1/4	4,175.27	1/4	3,947.23	1/4	3,697.16	1/4	3,425.67	1/4	3,092.66	1/4	2,732.42	1/4	2,372.47	1/4	2,012.24	
1/2	1/2	4,398.87	1/2	4,170.75	1/2	3,942.25	1/2	3,691.73	1/2	3,419.87	1/2	3,085.16	1/2	2,724.91	1/2	2,364.98	1/2	2,004.74	
3/4	3/4	4,393.07	3/4	4,166.23	3/4	3,937.27	3/4	3,686.29	3/4	3,414.07	3/4	3,077.65	3/4	2,717.41	3/4	2,357.49	3/4	1,997.23	
4	4	4,387.28	4	4,161.66	4	3,932.25	4	3,680.82	4	3,408.28	4	3,070.15	4	2,709.90	4	2,350.00	4	1,989.72	
1/4	1/4	4,381.48	1/4	4,157.10	1/4	3,927.23	1/4	3,675.34	1/4	3,402.48	1/4	3,062.64	1/4	2,702.40	1/4	2,342.50	1/4	1,982.21	
1/2	1/2	4,375.68	1/2	4,152.53	1/2	3,922.21	1/2	3,669.86	1/2	3,396.68	1/2	3,055.14	1/2	2,694.89	1/2	2,335.01	1/2	1,974.70	
3/4	3/4	4,369.89	3/4	4,147.96	3/4	3,917.19	3/4	3,664.38	3/4	3,390.89	3/4	3,047.63	3/4	2,687.39	3/4	2,327.52	3/4	1,967.19	
5	5	4,364.09	5	4,143.37	5	3,912.13	5	3,658.87	5	3,385.09	5	3,040.13	5	2,679.88	5	2,320.03	5	1,959.69	
1/4	1/4	4,358.29	1/4	4,138.77	1/4	3,907.08	1/4	3,653.36	1/4	3,379.29	1/4	3,032.62	1/4	2,672.38	1/4	2,312.54	1/4	1,952.18	
1/2	1/2	4,352.50	1/2	4,134.17	1/2	3,902.02	1/2	3,647.85	1/2	3,373.50	1/2	3,025.12	1/2	2,664.87	1/2	2,305.05	1/2	1,944.67	
3/4	3/4	4,346.70	3/4	4,129.57	3/4	3,896.97	3/4	3,642.34	3/4	3,367.70	3/4	3,017.61	3/4	2,657.37	3/4	2,297.56	3/4	1,937.16	
6	6	4,340.90	6	4,124.94	6	3,891.87	6	3,636.78	6	3,361.90	6	3,010.10	6	2,649.86	6	2,290.05	6	1,929.65	
1/4	1/4	4,335.11	1/4	4,120.31	1/4	3,886.76	1/4	3,631.22	1/4	3,356.11	1/4	3,002.60	1/4	2,642.36	1/4	2,282.54	1/4	1,922.15	
1/2	1/2	4,329.31	1/2	4,115.68	1/2	3,881.66	1/2	3,625.67	1/2	3,350.31	1/2	2,995.09	1/2	2,634.85	1/2	2,275.03	1/2	1,914.64	
3/4	3/4	4,323.51	3/4	4,111.04	3/4	3,876.56	3/4	3,620.11	3/4	3,344.51	3/4	2,987.59	3/4	2,627.34	3/4	2,267.52	3/4	1,907.13	
7	7	4,319.29	7	4,106.37	7	3,871.43	7	3,614.52	7	3,337.85	7	2,980.08	7	2,619.84	7	2,260.01	7	1,899.62	
1/4	1/4	4,315.07	1/4	4,101.70	1/4	3,866.30	1/4	3,608.93	1/4	3,331.20	1/4	2,972.58	1/4	2,612.33	1/4	2,252.51	1/4	1,892.11	
1/2	1/2	4,310.86	1/2	4,097.02	1/2	3,861.17	1/2	3,603.34	1/2	3,324.54	1/2	2,965.07	1/2	2,604.83	1/2	2,245.00	1/2	1,884.60	
3/4	3/4	4,306.64	3/4	4,092.35	3/4	3,856.03	3/4	3,597.75	3/4	3,317.88	3/4	2,957.57	3/4	2,597.32	3/4	2,237.49	3/4	1,877.10	
8	8	4,302.38	8	4,087.64	8	3,850.87	8	3,592.12	8	3,310.37	8	2,950.06	8	2,589.82	8	2,229.98	8	1,869.59	
1/4	1/4	4,298.13	1/4	4,082.93	1/4	3,845.70	1/4	3,586.48	1/4	3,302.86	1/4	2,942.56	1/4	2,582.31	1/4	2,222.47	1/4	1,862.08	
1/2	1/2	4,293.88	1/2	4,078.22	1/2	3,840.53	1/2	3,580.84	1/2	3,295.35	1/2	2,935.05	1/2	2,574.81	1/2	2,214.97	1/2	1,854.57	
3/4	3/4	4,289.63	3/4	4,073.51	3/4	3,835.37	3/4	3,575.21	3/4	3,287.84	3/4	2,927.55	3/4	2,567.30	3/4	2,207.46	3/4	1,847.06	
9	9	4,285.33	9	4,068.75	9	3,830.16	9	3,569.54	9	3,280.34	9	2,920.04	9	2,559.80	9	2,199.95	9	1,839.56	
1/4	1/4	4,281.03	1/4	4,064.00	1/4	3,824.95	1/4	3,563.87	1/4	3,272.83	1/4	2,912.54	1/4	2,552.29	1/4	2,192.44	1/4	1,832.05	
1/2	1/2	4,276.73	1/2	4,059.25	1/2	3,819.74	1/2	3,558.21	1/2	3,265.32	1/2	2,905.03	1/2	2,544.79	1/2	2,184.93	1/2	1,824.54	
3/4	3/4	4,272.43	3/4	4,054.49	3/4	3,814.53	3/4	3,552.54	3/4	3,257.81	3/4	2,897.53	3/4	2,537.28	3/4	2,177.42	3/4	1,817.03	
10	10	4,268.10	10	4,049.70	10	3,809.28	10	3,546.84	10	3,250.30	10	2,890.02	10	2,529.79	10	2,169.92	10	1,809.52	
1/4	1/4	4,263.77	1/4	4,044.92	1/4	3,804.04	1/4	3,541.14	1/4	3,242.80	1/4	2,882.52	1/4	2,522.30	1/4	2,162.41	1/4	1,802.01	
1/2	1/2	4,259.44	1/2	4,040.13	1/2	3,798.79	1/2	3,535.43	1/2	3,235.29	1/2	2,875.01	1/2	2,514.81	1/2	2,154.90	1/2	1,794.51	
3/4	3/4	4,255.11	3/4	4,035.34	3/4	3,793.55	3/4	3,529.73	3/4	3,227.78	3/4	2,867.51	3/4	2,507.32	3/4	2,147.39	3/4	1,787.00	
11	11	4,250.75	11	4,030.51	11	3,788.26	11	3,523.99	11	3,220.27	11	2,860.00	11	2,499.83	11	2,139.88	11	1,779.55	
1/4	1/4	4,246.38	1/4	4,025.67	1/4	3,782.97	1/4	3,518.24	1/4	3,212.76	1/4	2,852.50	1/4	2,492.33	1/4	2,132.38	1/4	1,772.10	
1/2	1/2	4,242.02	1/2	4,020.84	1/2	3,777.68	1/2	3,512.50	1/2	3,205.25	1/2	2,844.99	1/2	2,484.84	1/2	2,124.87	1/2	1,764.64	
3/4	3/4	4,488.65	3/4	4,237.65	3/4	4,016.01	3/4	3,772.39	3/4	3,506.75	3/4	3,197.75	3/4	2,837.49	3/4	2,117.36	3/4	1,757.19	

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'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 369"

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	1,749.74	0	1,391.80	0	1,031.42	0	676.05	0	323.31	0		0		0		0		0	
1/4	1,742.29	1/4	1,384.30	1/4	1,023.91	1/4	668.81	1/4	315.80	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.84	1/2	1,376.79	1/2	1,016.40	1/2	661.57	1/2	308.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,727.39	3/4	1,369.28	3/4	1,008.89	3/4	654.33	3/4	300.78	3/4		3/4		3/4		3/4		3/4	
1	1,719.94	1	1,361.77	1	1,001.38	1	647.09	1	293.28	1		1		1		1		1	
1/4	1,712.49	1/4	1,354.26	1/4	993.88	1/4	639.85	1/4	285.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,705.04	1/2	1,346.76	1/2	986.37	1/2	632.61	1/2	278.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,697.58	3/4	1,339.25	3/4	978.86	3/4	625.37	3/4	270.75	3/4		3/4		3/4		3/4		3/4	
2	1,690.13	2	1,331.74	2	971.35	2	618.13	2	263.24	2		2		2		2		2	
1/4	1,682.68	1/4	1,324.23	1/4	963.84	1/4	610.89	1/4	255.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,675.23	1/2	1,316.72	1/2	956.33	1/2	603.65	1/2	248.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,667.78	3/4	1,309.22	3/4	948.83	3/4	596.41	3/4	240.72	3/4		3/4		3/4		3/4		3/4	
3	1,660.33	3	1,301.71	3	941.32	3	589.17	3	233.21	3		3		3		3		3	
1/4	1,652.88	1/4	1,294.20	1/4	933.81	1/4	581.93	1/4	225.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,645.43	1/2	1,286.69	1/2	926.30	1/2	574.69	1/2	218.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,637.98	3/4	1,279.18	3/4	918.79	3/4	567.45	3/4	210.69	3/4		3/4		3/4		3/4		3/4	
4	1,630.52	4	1,271.68	4	911.29	4	560.21	4	203.18	4		4		4		4		4	
1/4	1,623.07	1/4	1,264.17	1/4	903.78	1/4	552.97	1/4	195.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,615.62	1/2	1,256.66	1/2	896.27	1/2	545.72	1/2	188.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,608.17	3/4	1,249.15	3/4	888.76	3/4	538.48	3/4	180.66	3/4		3/4		3/4		3/4		3/4	
5	1,600.72	5	1,241.64	5	881.25	5	531.24	5	173.15	5		5		5		5		5	
1/4	1,593.27	1/4	1,234.13	1/4	873.75	1/4	523.99	1/4	165.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,585.82	1/2	1,226.63	1/2	866.24	1/2	516.74	1/2	158.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,578.37	3/4	1,219.12	3/4	858.73	3/4	509.49	3/4	150.63	3/4		3/4		3/4		3/4		3/4	
6	1,570.92	6	1,211.61	6	851.22	6	502.24	6	143.12	6		6		6		6		6	
1/4	1,563.47	1/4	1,204.10	1/4	843.71	1/4	494.98	1/4	135.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,556.01	1/2	1,196.59	1/2	836.21	1/2	487.73	1/2	128.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,548.56	3/4	1,189.09	3/4	828.70	3/4	480.47	3/4	120.59	3/4		3/4		3/4		3/4		3/4	
7	1,541.11	7	1,181.58	7	821.31	7	473.09	7	113.09	7		7		7		7		7	
1/4	1,533.66	1/4	1,174.07	1/4	813.93	1/4	465.71	1/4	105.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,526.21	1/2	1,166.56	1/2	806.55	1/2	458.32	1/2	98.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,518.76	3/4	1,159.05	3/4	799.17	3/4	450.94	3/4	90.56	3/4		3/4		3/4		3/4		3/4	
8	1,511.31	8	1,151.55	8	791.92	8	443.43	8	83.06	8		8		8		8		8	
1/4	1,503.86	1/4	1,144.04	1/4	784.67	1/4	435.93	1/4	75.55	1/4		1/4		1/4		1/4		1/4	
1/2	1,496.41	1/2	1,136.53	1/2	777.43	1/2	428.42	1/2	68.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,488.95	3/4	1,129.02	3/4	770.18	3/4	420.91	3/4	60.53	3/4		3/4		3/4		3/4		3/4	
9	1,481.50	9	1,121.51	9	762.94	9	413.40	9	53.96	9		9		9		9		9	
1/4	1,474.05	1/4	1,114.01	1/4	755.70	1/4	405.90	1/4	47.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,466.60	1/2	1,106.50	1/2	748.46	1/2	398.39	1/2	40.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,459.15	3/4	1,098.99	3/4	741.21	3/4	390.88	3/4	34.25	3/4		3/4		3/4		3/4		3/4	
10	1,451.70	10	1,091.48	10	733.97	10	383.37	10	29.55	10		10		10		10		10	
1/4	1,444.25	1/4	1,083.97	1/4	726.73	1/4	375.86	1/4	24.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.80	1/2	1,076.46	1/2	719.49	1/2	368.36	1/2	20.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,429.35	3/4	1,068.96	3/4	712.25	3/4	360.85	3/4	15.45	3/4		3/4		3/4		3/4		3/4	
11	1,421.84	11	1,061.45	11	705.01	11	353.34	11		11		11		11		11		11	
1/4	1,414.33	1/4	1,053.94	1/4	697.77	1/4	345.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,406.82	1/2	1,046.43	1/2	690.53	1/2	338.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,399.31	3/4	1,038.92	3/4	683.29	3/4	330.82	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2009 CL - SW
CALCULATED: 01/21/2009 CL
PRINTED: 01/21/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2009

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