



# BARGE "EMS 384"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4
1 STBD	- 00-1/4	00-1/4	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4
2 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
2 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
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 00-5/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

April 22, 2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 384"

# 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.65	0	255.66	0	537.43	0	837.99	0	1,158.84	0	1,490.35	0	1,821.85	0	2,153.35	0	2,484.85	0	2,816.35
1/4	5.94	1/4	261.34	1/4	543.53	1/4	844.46	1/4	1,165.75	1/4	1,497.25	1/4	1,828.76	1/4	2,160.26	1/4	2,491.76	1/4	2,823.25
1/2	9.23	1/2	267.02	1/2	549.62	1/2	850.92	1/2	1,172.66	1/2	1,504.16	1/2	1,835.66	1/2	2,167.16	1/2	2,498.67	1/2	2,830.16
3/4	12.53	3/4	272.70	3/4	555.72	3/4	857.39	3/4	1,179.56	3/4	1,511.07	3/4	1,842.57	3/4	2,174.07	3/4	2,505.57	3/4	2,837.06
1	15.82	1	278.38	1	561.81	1	863.86	1	1,186.47	1	1,517.97	1	1,849.47	1	2,180.98	1	2,512.48	1	2,843.97
1/4	20.87	1/4	284.09	1/4	567.94	1/4	870.36	1/4	1,193.38	1/4	1,524.88	1/4	1,856.38	1/4	2,187.88	1/4	2,519.39	1/4	2,850.87
1/2	25.93	1/2	289.81	1/2	574.07	1/2	876.86	1/2	1,200.28	1/2	1,531.78	1/2	1,863.29	1/2	2,194.79	1/2	2,526.29	1/2	2,857.78
3/4	30.98	3/4	295.52	3/4	580.20	3/4	883.36	3/4	1,207.19	3/4	1,538.69	3/4	1,870.19	3/4	2,201.70	3/4	2,533.20	3/4	2,864.69
2	36.03	2	301.24	2	586.33	2	889.86	2	1,214.09	2	1,545.60	2	1,877.10	2	2,208.60	2	2,540.10	2	2,871.59
1/4	41.37	1/4	306.99	1/4	592.49	1/4	896.40	1/4	1,221.00	1/4	1,552.50	1/4	1,884.01	1/4	2,215.51	1/4	2,547.01	1/4	2,878.50
1/2	46.71	1/2	312.74	1/2	598.66	1/2	902.94	1/2	1,227.91	1/2	1,559.41	1/2	1,890.91	1/2	2,222.41	1/2	2,553.92	1/2	2,885.40
3/4	52.04	3/4	318.49	3/4	604.82	3/4	909.47	3/4	1,234.81	3/4	1,566.32	3/4	1,897.82	3/4	2,229.32	3/4	2,560.82	3/4	2,892.31
3	57.38	3	324.24	3	610.98	3	916.01	3	1,241.72	3	1,573.22	3	1,904.72	3	2,236.23	3	2,567.73	3	2,899.21
1/4	62.75	1/4	330.02	1/4	617.18	1/4	922.60	1/4	1,248.63	1/4	1,580.13	1/4	1,911.63	1/4	2,243.13	1/4	2,574.64	1/4	2,906.12
1/2	68.12	1/2	335.81	1/2	623.38	1/2	929.19	1/2	1,255.53	1/2	1,587.03	1/2	1,918.54	1/2	2,250.04	1/2	2,581.54	1/2	2,913.02
3/4	73.48	3/4	341.59	3/4	629.58	3/4	935.77	3/4	1,262.44	3/4	1,593.94	3/4	1,925.44	3/4	2,256.95	3/4	2,588.45	3/4	2,919.93
4	78.85	4	347.37	4	635.78	4	942.36	4	1,269.35	4	1,600.85	4	1,932.35	4	2,263.85	4	2,595.35	4	2,926.83
1/4	84.26	1/4	353.19	1/4	642.01	1/4	948.98	1/4	1,276.25	1/4	1,607.75	1/4	1,939.26	1/4	2,270.76	1/4	2,602.26	1/4	2,933.74
1/2	89.66	1/2	359.01	1/2	648.24	1/2	955.61	1/2	1,283.16	1/2	1,614.66	1/2	1,946.16	1/2	2,277.66	1/2	2,609.17	1/2	2,940.64
3/4	95.07	3/4	364.83	3/4	654.48	3/4	962.23	3/4	1,290.06	3/4	1,621.57	3/4	1,953.07	3/4	2,284.57	3/4	2,616.07	3/4	2,947.55
5	100.47	5	370.65	5	660.71	5	968.85	5	1,296.97	5	1,628.47	5	1,959.98	5	2,291.48	5	2,622.98	5	2,954.45
1/4	105.91	1/4	376.50	1/4	666.95	1/4	975.53	1/4	1,303.88	1/4	1,635.38	1/4	1,966.88	1/4	2,298.38	1/4	2,629.89	1/4	2,961.36
1/2	111.35	1/2	382.35	1/2	673.19	1/2	982.22	1/2	1,310.78	1/2	1,642.29	1/2	1,973.79	1/2	2,305.29	1/2	2,636.79	1/2	2,968.26
3/4	116.79	3/4	388.21	3/4	679.42	3/4	988.90	3/4	1,317.69	3/4	1,649.19	3/4	1,980.69	3/4	2,312.20	3/4	2,643.70	3/4	2,975.17
6	122.23	6	394.06	6	685.66	6	995.58	6	1,324.60	6	1,656.10	6	1,987.60	6	2,319.10	6	2,650.61	6	2,982.08
1/4	127.70	1/4	399.95	1/4	691.94	1/4	1,002.30	1/4	1,331.50	1/4	1,663.00	1/4	1,994.51	1/4	2,326.01	1/4	2,657.51	1/4	2,988.98
1/2	133.17	1/2	405.84	1/2	698.21	1/2	1,009.01	1/2	1,338.41	1/2	1,669.91	1/2	2,001.41	1/2	2,332.92	1/2	2,664.42	1/2	2,995.89
3/4	138.65	3/4	411.72	3/4	704.48	3/4	1,015.73	3/4	1,345.31	3/4	1,676.82	3/4	2,008.32	3/4	2,339.82	3/4	2,671.32	3/4	3,002.79
7	144.12	7	417.61	7	710.76	7	1,022.45	7	1,352.22	7	1,683.72	7	2,015.23	7	2,346.73	7	2,678.23	7	3,009.70
1/4	149.63	1/4	423.53	1/4	717.05	1/4	1,029.20	1/4	1,359.13	1/4	1,690.63	1/4	2,022.13	1/4	2,353.63	1/4	2,685.14	1/4	3,016.60
1/2	155.14	1/2	429.45	1/2	723.34	1/2	1,035.95	1/2	1,366.03	1/2	1,697.54	1/2	2,029.04	1/2	2,360.54	1/2	2,692.04	1/2	3,023.51
3/4	160.64	3/4	435.38	3/4	729.64	3/4	1,042.70	3/4	1,372.94	3/4	1,704.44	3/4	2,035.94	3/4	2,367.45	3/4	2,698.95	3/4	3,030.41
8	166.15	8	441.30	8	735.93	8	1,049.45	8	1,379.85	8	1,711.35	8	2,042.85	8	2,374.35	8	2,705.86	8	3,037.32
1/4	171.69	1/4	447.26	1/4	742.26	1/4	1,056.23	1/4	1,386.75	1/4	1,718.25	1/4	2,049.76	1/4	2,381.26	1/4	2,712.76	1/4	3,044.22
1/2	177.24	1/2	453.21	1/2	748.59	1/2	1,063.02	1/2	1,393.66	1/2	1,725.16	1/2	2,056.66	1/2	2,388.17	1/2	2,719.67	1/2	3,051.13
3/4	182.78	3/4	459.17	3/4	754.92	3/4	1,069.81	3/4	1,400.56	3/4	1,732.07	3/4	2,063.57	3/4	2,395.07	3/4	2,726.57	3/4	3,058.03
9	188.32	9	465.13	9	761.25	9	1,076.59	9	1,407.47	9	1,738.97	9	2,070.48	9	2,401.98	9	2,733.48	9	3,064.94
1/4	193.90	1/4	471.12	1/4	767.61	1/4	1,083.41	1/4	1,414.38	1/4	1,745.88	1/4	2,077.38	1/4	2,408.88	1/4	2,740.39	1/4	3,071.84
1/2	199.47	1/2	477.11	1/2	773.98	1/2	1,090.23	1/2	1,421.28	1/2	1,752.79	1/2	2,084.29	1/2	2,415.79	1/2	2,747.29	1/2	3,078.75
3/4	205.05	3/4	483.10	3/4	780.34	3/4	1,097.05	3/4	1,428.19	3/4	1,759.69	3/4	2,091.19	3/4	2,422.70	3/4	2,754.20	3/4	3,085.65
10	210.63	10	489.09	10	786.70	10	1,103.87	10	1,435.10	10	1,766.60	10	2,098.10	10	2,429.60	10	2,761.11	10	3,092.56
1/4	216.24	1/4	495.12	1/4	793.10	1/4	1,110.72	1/4	1,442.00	1/4	1,773.50	1/4	2,105.01	1/4	2,436.51	1/4	2,768.01	1/4	3,099.47
1/2	221.85	1/2	501.14	1/2	799.49	1/2	1,117.58	1/2	1,448.91	1/2	1,780.41	1/2	2,111.91	1/2	2,443.42	1/2	2,774.92	1/2	3,106.37
3/4	227.46	3/4	507.17	3/4	805.88	3/4	1,124.43	3/4	1,455.82	3/4	1,787.32	3/4	2,118.82	3/4	2,450.32	3/4	2,781.82	3/4	3,113.28
11	233.07	11	513.19	11	812.28	11	1,131.29	11	1,462.72	11	1,794.22	11	2,125.73	11	2,457.23	11	2,788.73	11	3,120.18
1/4	238.72	1/4	519.25	1/4	818.71	1/4	1,138.18	1/4	1,469.63	1/4	1,801.13	1/4	2,132.63	1/4	2,464.13	1/4	2,795.63	1/4	3,127.09
1/2	244.37	1/2	525.31	1/2	825.13	1/2	1,145.07	1/2	1,476.53	1/2	1,808.04	1/2	2,139.54	1/2	2,471.04	1/2	2,802.54	1/2	3,133.99
3/4	250.01	3/4	531.37	3/4	831.56	3/4	1,151.96	3/4	1,483.44	3/4	1,814.94	3/4	2,146.45	3/4	2,477.95	3/4	2,809.44	3/4	3,140.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-06" 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 384"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,147.80	0	3,479.26	0	3,810.71	0	4,141.37	0		0		0		0		0		0	
1/4	3,154.71	1/4	3,486.16	1/4	3,817.62	1/4	4,148.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,161.61	1/2	3,493.07	1/2	3,824.52	1/2	4,155.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,168.52	3/4	3,499.97	3/4	3,831.43	3/4	4,161.96	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,175.42	1	3,506.88	1	3,838.33	1	4,168.83	1		1		1		1		1		1	
1/4	3,182.33	1/4	3,513.78	1/4	3,845.24	1/4	4,175.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,189.23	1/2	3,520.69	1/2	3,852.14	1/2	4,182.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,196.14	3/4	3,527.59	3/4	3,859.05	3/4	4,189.42	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,203.05	2	3,534.50	2	3,865.95	2	4,196.29	2		2		2		2		2		2	
1/4	3,209.95	1/4	3,541.40	1/4	3,872.86	1/4	4,203.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,216.86	1/2	3,548.31	1/2	3,879.76	1/2	4,210.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,223.76	3/4	3,555.22	3/4	3,886.67	3/4	4,216.88	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,230.67	3	3,562.12	3	3,893.58	3	4,223.75	3		3		3		3		3		3	
1/4	3,237.57	1/4	3,569.03	1/4	3,900.48	1/4	4,230.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,244.48	1/2	3,575.93	1/2	3,907.39	1/2	4,237.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.38	3/4	3,582.84	3/4	3,914.29	3/4	4,244.35	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,258.29	4	3,589.74	4	3,921.20	4	4,251.21	4		4		4		4		4		4	
1/4	3,265.19	1/4	3,596.65	1/4	3,928.10	1/4	4,258.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,272.10	1/2	3,603.55	1/2	3,935.01	1/2	4,264.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.00	3/4	3,610.46	3/4	3,941.91	3/4	4,271.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,285.91	5	3,617.36	5	3,948.82	5	4,278.67	5		5		5		5		5		5	
1/4	3,292.81	1/4	3,624.27	1/4	3,955.72	1/4	4,285.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,299.72	1/2	3,631.17	1/2	3,962.63	1/2	4,292.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,306.62	3/4	3,638.08	3/4	3,969.53	3/4	4,299.27	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,313.53	6	3,644.98	6	3,976.44	6	4,306.13	6		6		6		6		6		6	
1/4	3,320.44	1/4	3,651.89	1/4	3,983.34	1/4	4,313.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,327.34	1/2	3,658.79	1/2	3,990.25	1/2	4,319.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,334.25	3/4	3,665.70	3/4	3,997.15	3/4	4,326.73	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,341.15	7	3,672.61	7	4,004.06	7	4,333.59	7		7		7		7		7		7	
1/4	3,348.06	1/4	3,679.51	1/4	4,010.93	1/4	4,340.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,354.96	1/2	3,686.42	1/2	4,017.79	1/2	4,347.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,361.87	3/4	3,693.32	3/4	4,024.66	3/4	4,353.97	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,368.77	8	3,700.23	8	4,031.52	8	4,360.76	8		8		8		8		8		8	
1/4	3,375.68	1/4	3,707.13	1/4	4,038.39	1/4	4,367.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,382.58	1/2	3,714.04	1/2	4,045.25	1/2	4,373.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,389.49	3/4	3,720.94	3/4	4,052.12	3/4	4,380.08	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,396.39	9	3,727.85	9	4,058.98	9	4,386.52	9		9		9		9		9		9	
1/4	3,403.30	1/4	3,734.75	1/4	4,065.85	1/4	4,391.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,410.20	1/2	3,741.66	1/2	4,072.71	1/2	4,396.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,417.11	3/4	3,748.56	3/4	4,079.58	3/4	4,402.19	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,424.01	10	3,755.47	10	4,086.44	10		10		10		10		10		10		10	
1/4	3,430.92	1/4	3,762.37	1/4	4,093.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,437.83	1/2	3,769.28	1/2	4,100.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,444.73	3/4	3,776.18	3/4	4,107.04	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,451.64	11	3,783.09	11	4,113.90	11		11		11		11		11		11		11	
1/4	3,458.54	1/4	3,790.00	1/4	4,120.77	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,465.45	1/2	3,796.90	1/2	4,127.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,472.35	3/4	3,803.81	3/4	4,134.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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



# BARGE "EMS 384"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.66	0	255.70	0	537.50	0	838.88	0	1,160.29	0	1,491.79	0	1,823.29	0	2,154.79	0	2,486.30	0	2,817.79
1/4	5.95	1/4	261.38	1/4	543.60	1/4	845.38	1/4	1,167.19	1/4	1,498.70	1/4	1,830.20	1/4	2,161.70	1/4	2,493.20	1/4	2,824.70
1/2	9.24	1/2	267.06	1/2	549.69	1/2	851.88	1/2	1,174.10	1/2	1,505.60	1/2	1,837.10	1/2	2,168.61	1/2	2,500.11	1/2	2,831.60
3/4	12.54	3/4	272.74	3/4	555.79	3/4	858.37	3/4	1,181.01	3/4	1,512.51	3/4	1,844.01	3/4	2,175.51	3/4	2,507.02	3/4	2,838.51
1	15.83	1	278.43	1	561.88	1	864.87	1	1,187.91	1	1,519.42	1	1,850.92	1	2,182.42	1	2,513.92	1	2,845.41
1/4	20.88	1/4	284.14	1/4	568.01	1/4	871.40	1/4	1,194.82	1/4	1,526.32	1/4	1,857.82	1/4	2,189.33	1/4	2,520.83	1/4	2,852.32
1/2	25.94	1/2	289.86	1/2	574.14	1/2	877.93	1/2	1,201.73	1/2	1,533.23	1/2	1,864.73	1/2	2,196.23	1/2	2,527.73	1/2	2,859.22
3/4	30.99	3/4	295.57	3/4	580.27	3/4	884.46	3/4	1,208.63	3/4	1,540.13	3/4	1,871.64	3/4	2,203.14	3/4	2,534.64	3/4	2,866.13
2	36.05	2	301.29	2	586.40	2	890.99	2	1,215.54	2	1,547.04	2	1,878.54	2	2,210.05	2	2,541.55	2	2,873.03
1/4	41.38	1/4	307.04	1/4	592.57	1/4	897.56	1/4	1,222.44	1/4	1,553.95	1/4	1,885.45	1/4	2,216.95	1/4	2,548.45	1/4	2,879.94
1/2	46.72	1/2	312.79	1/2	598.73	1/2	904.12	1/2	1,229.35	1/2	1,560.85	1/2	1,892.36	1/2	2,223.86	1/2	2,555.36	1/2	2,886.84
3/4	52.06	3/4	318.54	3/4	604.89	3/4	910.69	3/4	1,236.26	3/4	1,567.76	3/4	1,899.26	3/4	2,230.76	3/4	2,562.27	3/4	2,893.75
3	57.39	3	324.29	3	611.06	3	917.25	3	1,243.16	3	1,574.67	3	1,906.17	3	2,237.67	3	2,569.17	3	2,900.65
1/4	62.76	1/4	330.07	1/4	617.26	1/4	923.86	1/4	1,250.07	1/4	1,581.57	1/4	1,913.07	1/4	2,244.58	1/4	2,576.08	1/4	2,907.56
1/2	68.13	1/2	335.86	1/2	623.46	1/2	930.48	1/2	1,256.98	1/2	1,588.48	1/2	1,919.98	1/2	2,251.48	1/2	2,582.99	1/2	2,914.46
3/4	73.50	3/4	341.64	3/4	629.66	3/4	937.09	3/4	1,263.88	3/4	1,595.38	3/4	1,926.89	3/4	2,258.39	3/4	2,589.89	3/4	2,921.37
4	78.87	4	347.43	4	635.85	4	943.70	4	1,270.79	4	1,602.29	4	1,933.79	4	2,265.30	4	2,596.80	4	2,928.27
1/4	84.28	1/4	353.25	1/4	642.09	1/4	950.35	1/4	1,277.69	1/4	1,609.20	1/4	1,940.70	1/4	2,272.20	1/4	2,603.70	1/4	2,935.18
1/2	89.68	1/2	359.06	1/2	648.32	1/2	957.00	1/2	1,284.60	1/2	1,616.10	1/2	1,947.61	1/2	2,279.11	1/2	2,610.61	1/2	2,942.08
3/4	95.09	3/4	364.88	3/4	654.55	3/4	963.65	3/4	1,291.51	3/4	1,623.01	3/4	1,954.51	3/4	2,286.01	3/4	2,617.52	3/4	2,948.99
5	100.50	5	370.70	5	660.79	5	970.29	5	1,298.41	5	1,629.92	5	1,961.42	5	2,292.92	5	2,624.42	5	2,955.89
1/4	105.93	1/4	376.56	1/4	667.05	1/4	976.98	1/4	1,305.32	1/4	1,636.82	1/4	1,968.32	1/4	2,299.83	1/4	2,631.33	1/4	2,962.80
1/2	111.37	1/2	382.41	1/2	673.32	1/2	983.66	1/2	1,312.23	1/2	1,643.73	1/2	1,975.23	1/2	2,306.73	1/2	2,638.24	1/2	2,969.71
3/4	116.81	3/4	388.26	3/4	679.59	3/4	990.34	3/4	1,319.13	3/4	1,650.63	3/4	1,982.14	3/4	2,313.64	3/4	2,645.14	3/4	2,976.61
6	122.25	6	394.12	6	685.86	6	997.02	6	1,326.04	6	1,657.54	6	1,989.04	6	2,320.55	6	2,652.05	6	2,983.52
1/4	127.73	1/4	400.01	1/4	692.16	1/4	1,003.74	1/4	1,332.94	1/4	1,664.45	1/4	1,995.95	1/4	2,327.45	1/4	2,658.95	1/4	2,990.42
1/2	133.20	1/2	405.89	1/2	698.46	1/2	1,010.45	1/2	1,339.85	1/2	1,671.35	1/2	2,002.86	1/2	2,334.36	1/2	2,665.86	1/2	2,997.33
3/4	138.68	3/4	411.78	3/4	704.76	3/4	1,017.17	3/4	1,346.76	3/4	1,678.26	3/4	2,009.76	3/4	2,341.26	3/4	2,672.77	3/4	3,004.23
7	144.15	7	417.67	7	711.07	7	1,023.89	7	1,353.66	7	1,685.17	7	2,016.67	7	2,348.17	7	2,679.67	7	3,011.14
1/4	149.66	1/4	423.59	1/4	717.39	1/4	1,030.64	1/4	1,360.57	1/4	1,692.07	1/4	2,023.57	1/4	2,355.08	1/4	2,686.58	1/4	3,018.04
1/2	155.17	1/2	429.52	1/2	723.71	1/2	1,037.39	1/2	1,367.48	1/2	1,698.98	1/2	2,030.48	1/2	2,361.98	1/2	2,693.49	1/2	3,024.95
3/4	160.67	3/4	435.44	3/4	730.04	3/4	1,044.14	3/4	1,374.38	3/4	1,705.89	3/4	2,037.39	3/4	2,368.89	3/4	2,700.39	3/4	3,031.85
8	166.18	8	441.36	8	736.36	8	1,050.89	8	1,381.29	8	1,712.79	8	2,044.29	8	2,375.80	8	2,707.30	8	3,038.76
1/4	171.73	1/4	447.32	1/4	742.72	1/4	1,057.68	1/4	1,388.20	1/4	1,719.70	1/4	2,051.20	1/4	2,382.70	1/4	2,714.20	1/4	3,045.66
1/2	177.27	1/2	453.27	1/2	749.08	1/2	1,064.46	1/2	1,395.10	1/2	1,726.60	1/2	2,058.11	1/2	2,389.61	1/2	2,721.11	1/2	3,052.57
3/4	182.81	3/4	459.23	3/4	755.44	3/4	1,071.25	3/4	1,402.01	3/4	1,733.51	3/4	2,065.01	3/4	2,396.52	3/4	2,728.02	3/4	3,059.47
9	188.36	9	465.19	9	761.79	9	1,078.03	9	1,408.91	9	1,740.42	9	2,071.92	9	2,403.42	9	2,734.92	9	3,066.38
1/4	193.93	1/4	471.18	1/4	768.19	1/4	1,084.85	1/4	1,415.82	1/4	1,747.32	1/4	2,078.83	1/4	2,410.33	1/4	2,741.83	1/4	3,073.28
1/2	199.51	1/2	477.17	1/2	774.58	1/2	1,091.67	1/2	1,422.73	1/2	1,754.23	1/2	2,085.73	1/2	2,417.23	1/2	2,748.74	1/2	3,080.19
3/4	205.09	3/4	483.16	3/4	780.97	3/4	1,098.49	3/4	1,429.63	3/4	1,761.14	3/4	2,092.64	3/4	2,424.14	3/4	2,755.64	3/4	3,087.09
10	210.67	10	489.16	10	787.36	10	1,105.31	10	1,436.54	10	1,768.04	10	2,099.54	10	2,431.05	10	2,762.55	10	3,094.00
1/4	216.28	1/4	495.18	1/4	793.79	1/4	1,112.17	1/4	1,443.45	1/4	1,774.95	1/4	2,106.45	1/4	2,437.95	1/4	2,769.45	1/4	3,100.90
1/2	221.89	1/2	501.21	1/2	800.21	1/2	1,119.02	1/2	1,450.35	1/2	1,781.85	1/2	2,113.36	1/2	2,444.86	1/2	2,776.36	1/2	3,107.81
3/4	227.50	3/4	507.23	3/4	806.63	3/4	1,125.88	3/4	1,457.26	3/4	1,788.76	3/4	2,120.26	3/4	2,451.77	3/4	2,783.26	3/4	3,114.71
11	233.11	11	513.26	11	813.05	11	1,132.73	11	1,464.16	11	1,795.67	11	2,127.17	11	2,458.67	11	2,790.17	11	3,121.62
1/4	238.76	1/4	519.32	1/4	819.51	1/4	1,139.62	1/4	1,471.07	1/4	1,802.57	1/4	2,134.08	1/4	2,465.58	1/4	2,797.08	1/4	3,128.52
1/2	244.41	1/2	525.38	1/2	825.97	1/2	1,146.51	1/2	1,477.98	1/2	1,809.48	1/2	2,140.98	1/2	2,472.48	1/2	2,803.98	1/2	3,135.43
3/4	250.05	3/4	531.44	3/4	832.43	3/4	1,153.40	3/4	1,484.88	3/4	1,816.39	3/4	2,147.89	3/4	2,479.39	3/4	2,810.89	3/4	3,142.34

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-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 384"

**1 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 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	3,149.24	0	3,480.69	0	3,812.14	0	4,142.80	0		0		0		0		0		0	
1/4	3,156.15	1/4	3,487.60	1/4	3,819.04	1/4	4,149.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,163.05	1/2	3,494.50	1/2	3,825.95	1/2	4,156.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,169.96	3/4	3,501.41	3/4	3,832.86	3/4	4,163.40	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,176.86	1	3,508.31	1	3,839.76	1	4,170.26	1		1		1		1		1		1	
1/4	3,183.77	1/4	3,515.22	1/4	3,846.67	1/4	4,177.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,190.67	1/2	3,522.12	1/2	3,853.57	1/2	4,183.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,197.58	3/4	3,529.03	3/4	3,860.48	3/4	4,190.86	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,204.48	2	3,535.93	2	3,867.38	2	4,197.72	2		2		2		2		2		2	
1/4	3,211.39	1/4	3,542.84	1/4	3,874.29	1/4	4,204.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.29	1/2	3,549.74	1/2	3,881.19	1/2	4,211.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.20	3/4	3,556.65	3/4	3,888.10	3/4	4,218.32	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,232.10	3	3,563.55	3	3,895.00	3	4,225.19	3		3		3		3		3		3	
1/4	3,239.01	1/4	3,570.46	1/4	3,901.91	1/4	4,232.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.91	1/2	3,577.36	1/2	3,908.81	1/2	4,238.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,252.82	3/4	3,584.27	3/4	3,915.72	3/4	4,245.78	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,259.72	4	3,591.17	4	3,922.62	4	4,252.65	4		4		4		4		4		4	
1/4	3,266.63	1/4	3,598.08	1/4	3,929.53	1/4	4,259.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.53	1/2	3,604.98	1/2	3,936.43	1/2	4,266.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,280.44	3/4	3,611.89	3/4	3,943.34	3/4	4,273.25	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,287.34	5	3,618.79	5	3,950.24	5	4,280.11	5		5		5		5		5		5	
1/4	3,294.25	1/4	3,625.70	1/4	3,957.15	1/4	4,286.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,301.15	1/2	3,632.60	1/2	3,964.05	1/2	4,293.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,308.06	3/4	3,639.51	3/4	3,970.96	3/4	4,300.71	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,314.97	6	3,646.41	6	3,977.86	6	4,307.58	6		6		6		6		6		6	
1/4	3,321.87	1/4	3,653.32	1/4	3,984.77	1/4	4,314.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,328.78	1/2	3,660.23	1/2	3,991.67	1/2	4,321.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,335.68	3/4	3,667.13	3/4	3,998.58	3/4	4,328.17	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,342.59	7	3,674.04	7	4,005.49	7	4,335.04	7		7		7		7		7		7	
1/4	3,349.49	1/4	3,680.94	1/4	4,012.35	1/4	4,341.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,356.40	1/2	3,687.85	1/2	4,019.22	1/2	4,348.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,363.30	3/4	3,694.75	3/4	4,026.08	3/4	4,355.41	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,370.21	8	3,701.66	8	4,032.95	8	4,362.20	8		8		8		8		8		8	
1/4	3,377.11	1/4	3,708.56	1/4	4,039.81	1/4	4,368.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,384.02	1/2	3,715.47	1/2	4,046.68	1/2	4,375.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,390.92	3/4	3,722.37	3/4	4,053.54	3/4	4,381.53	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,397.83	9	3,729.28	9	4,060.41	9	4,387.97	9		9		9		9		9		9	
1/4	3,404.73	1/4	3,736.18	1/4	4,067.28	1/4	4,393.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,411.64	1/2	3,743.09	1/2	4,074.14	1/2	4,398.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,418.54	3/4	3,749.99	3/4	4,081.01	3/4	4,403.63	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,425.45	10	3,756.90	10	4,087.87	10	=====	10		10		10		10		10		10	
1/4	3,432.35	1/4	3,763.80	1/4	4,094.74	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,439.26	1/2	3,770.71	1/2	4,101.60	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,446.16	3/4	3,777.61	3/4	4,108.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,453.07	11	3,784.52	11	4,115.34	11		11		11		11		11		11		11	
1/4	3,459.97	1/4	3,791.42	1/4	4,122.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,466.88	1/2	3,798.33	1/2	4,129.07	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,473.78	3/4	3,805.23	3/4	4,135.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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 384"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.87	0	396.75	0	774.77	0	1,158.10	0	1,546.42	0	1,934.73	0	2,323.05	0	2,711.36	0	3,099.68	0	3,487.99
1/4	24.65	1/4	404.84	1/4	782.53	1/4	1,166.19	1/4	1,554.51	1/4	1,942.82	1/4	2,331.14	1/4	2,719.45	1/4	3,107.77	1/4	3,496.07
1/2	30.42	1/2	412.93	1/2	790.30	1/2	1,174.28	1/2	1,562.60	1/2	1,950.91	1/2	2,339.23	1/2	2,727.54	1/2	3,115.86	1/2	3,504.16
3/4	36.20	3/4	421.02	3/4	798.07	3/4	1,182.37	3/4	1,570.69	3/4	1,959.00	3/4	2,347.32	3/4	2,735.63	3/4	3,123.95	3/4	3,512.25
1	41.98	1	429.11	1	805.84	1	1,190.46	1	1,578.78	1	1,967.09	1	2,355.41	1	2,743.72	1	3,132.04	1	3,520.34
1/4	49.78	1/4	437.20	1/4	813.62	1/4	1,198.55	1/4	1,586.87	1/4	1,975.18	1/4	2,363.50	1/4	2,751.81	1/4	3,140.13	1/4	3,528.43
1/2	57.58	1/2	445.29	1/2	821.39	1/2	1,206.64	1/2	1,594.96	1/2	1,983.27	1/2	2,371.59	1/2	2,759.90	1/2	3,148.22	1/2	3,536.52
3/4	65.38	3/4	453.38	3/4	829.17	3/4	1,214.73	3/4	1,603.05	3/4	1,991.36	3/4	2,379.68	3/4	2,767.99	3/4	3,156.31	3/4	3,544.61
2	73.18	2	461.46	2	836.95	2	1,222.82	2	1,611.14	2	1,999.45	2	2,387.77	2	2,776.08	2	3,164.40	2	3,552.70
1/4	81.27	1/4	469.55	1/4	844.74	1/4	1,230.91	1/4	1,619.23	1/4	2,007.54	1/4	2,395.86	1/4	2,784.17	1/4	3,172.49	1/4	3,560.78
1/2	89.36	1/2	477.64	1/2	852.52	1/2	1,239.00	1/2	1,627.32	1/2	2,015.63	1/2	2,403.95	1/2	2,792.26	1/2	3,180.58	1/2	3,568.87
3/4	97.45	3/4	485.73	3/4	860.30	3/4	1,247.09	3/4	1,635.41	3/4	2,023.72	3/4	2,412.04	3/4	2,800.35	3/4	3,188.67	3/4	3,576.96
3	105.54	3	493.82	3	868.09	3	1,255.18	3	1,643.50	3	2,031.81	3	2,420.13	3	2,808.44	3	3,196.76	3	3,585.05
1/4	113.62	1/4	501.91	1/4	875.87	1/4	1,263.27	1/4	1,651.59	1/4	2,039.90	1/4	2,428.22	1/4	2,816.53	1/4	3,204.85	1/4	3,593.14
1/2	121.71	1/2	510.00	1/2	883.66	1/2	1,271.36	1/2	1,659.68	1/2	2,047.99	1/2	2,436.31	1/2	2,824.62	1/2	3,212.94	1/2	3,601.23
3/4	129.80	3/4	518.09	3/4	891.44	3/4	1,279.45	3/4	1,667.77	3/4	2,056.08	3/4	2,444.40	3/4	2,832.71	3/4	3,221.03	3/4	3,609.32
4	137.89	4	526.18	4	899.23	4	1,287.54	4	1,675.86	4	2,064.17	4	2,452.49	4	2,840.80	4	3,229.12	4	3,617.41
1/4	145.98	1/4	533.96	1/4	907.32	1/4	1,295.63	1/4	1,683.95	1/4	2,072.26	1/4	2,460.58	1/4	2,848.89	1/4	3,237.21	1/4	3,625.50
1/2	154.07	1/2	541.73	1/2	915.41	1/2	1,303.72	1/2	1,692.04	1/2	2,080.35	1/2	2,468.67	1/2	2,856.98	1/2	3,245.30	1/2	3,633.58
3/4	162.16	3/4	549.51	3/4	923.50	3/4	1,311.81	3/4	1,700.13	3/4	2,088.44	3/4	2,476.76	3/4	2,865.07	3/4	3,253.39	3/4	3,641.67
5	170.25	5	557.29	5	931.59	5	1,319.90	5	1,708.22	5	2,096.53	5	2,484.85	5	2,873.16	5	3,261.48	5	3,649.76
1/4	178.34	1/4	565.06	1/4	939.68	1/4	1,327.99	1/4	1,716.31	1/4	2,104.62	1/4	2,492.94	1/4	2,881.25	1/4	3,269.57	1/4	3,657.85
1/2	186.43	1/2	572.83	1/2	947.77	1/2	1,336.08	1/2	1,724.40	1/2	2,112.71	1/2	2,501.03	1/2	2,889.34	1/2	3,277.66	1/2	3,665.94
3/4	194.52	3/4	580.59	3/4	955.86	3/4	1,344.17	3/4	1,732.49	3/4	2,120.80	3/4	2,509.12	3/4	2,897.43	3/4	3,285.75	3/4	3,674.03
6	202.61	6	588.36	6	963.95	6	1,352.26	6	1,740.58	6	2,128.89	6	2,517.21	6	2,905.52	6	3,293.84	6	3,682.12
1/4	210.70	1/4	596.13	1/4	972.04	1/4	1,360.35	1/4	1,748.67	1/4	2,136.98	1/4	2,525.30	1/4	2,913.61	1/4	3,301.93	1/4	3,690.21
1/2	218.79	1/2	603.90	1/2	980.13	1/2	1,368.44	1/2	1,756.76	1/2	2,145.07	1/2	2,533.39	1/2	2,921.70	1/2	3,310.02	1/2	3,698.29
3/4	226.88	3/4	611.67	3/4	988.22	3/4	1,376.53	3/4	1,764.85	3/4	2,153.16	3/4	2,541.48	3/4	2,929.79	3/4	3,318.11	3/4	3,706.38
7	234.96	7	619.44	7	996.31	7	1,384.62	7	1,772.94	7	2,161.25	7	2,549.57	7	2,937.88	7	3,326.20	7	3,714.47
1/4	243.05	1/4	627.20	1/4	1,004.40	1/4	1,392.71	1/4	1,781.03	1/4	2,169.34	1/4	2,557.66	1/4	2,945.97	1/4	3,334.29	1/4	3,722.56
1/2	251.14	1/2	634.97	1/2	1,012.48	1/2	1,400.80	1/2	1,789.12	1/2	2,177.43	1/2	2,565.75	1/2	2,954.06	1/2	3,342.38	1/2	3,730.65
3/4	259.23	3/4	642.74	3/4	1,020.57	3/4	1,408.89	3/4	1,797.21	3/4	2,185.52	3/4	2,573.84	3/4	2,962.15	3/4	3,350.47	3/4	3,738.74
8	267.32	8	650.51	8	1,028.66	8	1,416.98	8	1,805.30	8	2,193.61	8	2,581.93	8	2,970.24	8	3,358.56	8	3,746.83
1/4	275.41	1/4	658.27	1/4	1,036.75	1/4	1,425.07	1/4	1,813.38	1/4	2,201.70	1/4	2,590.02	1/4	2,978.33	1/4	3,366.65	1/4	3,754.92
1/2	283.50	1/2	666.04	1/2	1,044.84	1/2	1,433.16	1/2	1,821.47	1/2	2,209.79	1/2	2,598.11	1/2	2,986.42	1/2	3,374.74	1/2	3,763.00
3/4	291.59	3/4	673.80	3/4	1,052.93	3/4	1,441.25	3/4	1,829.56	3/4	2,217.88	3/4	2,606.20	3/4	2,994.51	3/4	3,382.83	3/4	3,771.09
9	299.68	9	681.56	9	1,061.02	9	1,449.34	9	1,837.65	9	2,225.97	9	2,614.29	9	3,002.60	9	3,390.92	9	3,779.18
1/4	307.77	1/4	689.33	1/4	1,069.11	1/4	1,457.43	1/4	1,845.74	1/4	2,234.06	1/4	2,622.37	1/4	3,010.69	1/4	3,399.01	1/4	3,787.27
1/2	315.86	1/2	697.09	1/2	1,077.20	1/2	1,465.52	1/2	1,853.83	1/2	2,242.15	1/2	2,630.46	1/2	3,018.78	1/2	3,407.10	1/2	3,795.36
3/4	323.95	3/4	704.86	3/4	1,085.29	3/4	1,473.61	3/4	1,861.92	3/4	2,250.24	3/4	2,638.55	3/4	3,026.87	3/4	3,415.19	3/4	3,803.45
10	332.04	10	712.62	10	1,093.38	10	1,481.70	10	1,870.01	10	2,258.33	10	2,646.64	10	3,034.96	10	3,423.28	10	3,811.54
1/4	340.13	1/4	720.39	1/4	1,101.47	1/4	1,489.79	1/4	1,878.10	1/4	2,266.42	1/4	2,654.73	1/4	3,043.05	1/4	3,431.36	1/4	3,819.63
1/2	348.21	1/2	728.16	1/2	1,109.56	1/2	1,497.88	1/2	1,886.19	1/2	2,274.51	1/2	2,662.82	1/2	3,051.14	1/2	3,439.45	1/2	3,827.72
3/4	356.30	3/4	735.92	3/4	1,117.65	3/4	1,505.97	3/4	1,894.28	3/4	2,282.60	3/4	2,670.91	3/4	3,059.23	3/4	3,447.54	3/4	3,835.80
11	364.39	11	743.69	11	1,125.74	11	1,514.06	11	1,902.37	11	2,290.69	11	2,679.00	11	3,067.32	11	3,455.63	11	3,843.89
1/4	372.48	1/4	751.46	1/4	1,133.83	1/4	1,522.15	1/4	1,910.46	1/4	2,298.78	1/4	2,687.09	1/4	3,075.41	1/4	3,463.72	1/4	3,851.98
1/2	380.57	1/2	759.23	1/2	1,141.92	1/2	1,530.24	1/2	1,918.55	1/2	2,306.87	1/2	2,695.18	1/2	3,083.50	1/2	3,471.81	1/2	3,860.07
3/4	388.66	3/4	767.00	3/4	1,150.01	3/4	1,538.33	3/4	1,926.64	3/4	2,314.96	3/4	2,703.27	3/4	3,091.59	3/4	3,479.90	3/4	3,868.16

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "EMS 384"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,876.25	0	4,264.51	0	4,652.77	0	5,040.10	0		0		0		0		0		0	
1/4	3,884.34	1/4	4,272.60	1/4	4,660.86	1/4	5,048.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,892.43	1/2	4,280.69	1/2	4,668.95	1/2	5,056.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,900.51	3/4	4,288.78	3/4	4,677.04	3/4	5,064.22	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,908.60	1	4,296.87	1	4,685.13	1	5,072.26	1		1		1		1		1		1	
1/4	3,916.69	1/4	4,304.95	1/4	4,693.22	1/4	5,080.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,924.78	1/2	4,313.04	1/2	4,701.31	1/2	5,088.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,932.87	3/4	4,321.13	3/4	4,709.39	3/4	5,096.39	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,940.96	2	4,329.22	2	4,717.48	2	5,104.43	2		2		2		2		2		2	
1/4	3,949.05	1/4	4,337.31	1/4	4,725.57	1/4	5,112.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,957.14	1/2	4,345.40	1/2	4,733.66	1/2	5,120.51	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,965.22	3/4	4,353.49	3/4	4,741.75	3/4	5,128.55	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,973.31	3	4,361.58	3	4,749.84	3	5,136.60	3		3		3		3		3		3	
1/4	3,981.40	1/4	4,369.66	1/4	4,757.93	1/4	5,144.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,989.49	1/2	4,377.75	1/2	4,766.02	1/2	5,152.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,997.58	3/4	4,385.84	3/4	4,774.10	3/4	5,160.72	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,005.67	4	4,393.93	4	4,782.19	4	5,168.76	4		4		4		4		4		4	
1/4	4,013.76	1/4	4,402.02	1/4	4,790.28	1/4	5,176.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,021.85	1/2	4,410.11	1/2	4,798.37	1/2	5,184.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,029.94	3/4	4,418.20	3/4	4,806.46	3/4	5,192.89	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,038.02	5	4,426.29	5	4,814.55	5	5,200.93	5		5		5		5		5		5	
1/4	4,046.11	1/4	4,434.38	1/4	4,822.64	1/4	5,208.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,054.20	1/2	4,442.46	1/2	4,830.73	1/2	5,217.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,062.29	3/4	4,450.55	3/4	4,838.82	3/4	5,225.06	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,070.38	6	4,458.64	6	4,846.90	6	5,233.10	6		6		6		6		6		6	
1/4	4,078.47	1/4	4,466.73	1/4	4,854.99	1/4	5,241.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,086.56	1/2	4,474.82	1/2	4,863.08	1/2	5,249.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,094.65	3/4	4,482.91	3/4	4,871.17	3/4	5,257.22	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,102.73	7	4,491.00	7	4,879.26	7	5,265.27	7		7		7		7		7		7	
1/4	4,110.82	1/4	4,499.09	1/4	4,887.30	1/4	5,273.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,118.91	1/2	4,507.17	1/2	4,895.34	1/2	5,281.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,127.00	3/4	4,515.26	3/4	4,903.38	3/4	5,289.13	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,135.09	8	4,523.35	8	4,911.43	8	5,297.09	8		8		8		8		8		8	
1/4	4,143.18	1/4	4,531.44	1/4	4,919.47	1/4	5,304.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,151.27	1/2	4,539.53	1/2	4,927.51	1/2	5,312.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,159.36	3/4	4,547.62	3/4	4,935.55	3/4	5,319.71	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,167.44	9	4,555.71	9	4,943.59	9	5,327.26	9		9		9		9		9		9	
1/4	4,175.53	1/4	4,563.80	1/4	4,951.64	1/4	5,333.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,183.62	1/2	4,571.88	1/2	4,959.68	1/2	5,339.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,191.71	3/4	4,579.97	3/4	4,967.72	3/4	5,345.61	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,199.80	10	4,588.06	10	4,975.76	10		10		10		10		10		10		10	
1/4	4,207.89	1/4	4,596.15	1/4	4,983.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,215.98	1/2	4,604.24	1/2	4,991.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,224.07	3/4	4,612.33	3/4	4,999.89	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,232.16	11	4,620.42	11	5,007.93	11		11		11		11		11		11		11	
1/4	4,240.24	1/4	4,628.51	1/4	5,015.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,248.33	1/2	4,636.60	1/2	5,024.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,256.42	3/4	4,644.68	3/4	5,032.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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 384"

## 2 STBD

### INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	18.87	0	396.75	0	784.73	0	1,173.00	0	1,561.31	0	1,949.63	0	2,337.95	0	2,726.26	0	3,114.58	0	3,502.88
1/4	24.65	1/4	404.84	1/4	792.81	1/4	1,181.09	1/4	1,569.40	1/4	1,957.72	1/4	2,346.04	1/4	2,734.35	1/4	3,122.67	1/4	3,510.97
1/2	30.42	1/2	412.93	1/2	800.89	1/2	1,189.18	1/2	1,577.49	1/2	1,965.81	1/2	2,354.13	1/2	2,742.44	1/2	3,130.76	1/2	3,519.06
3/4	36.20	3/4	421.02	3/4	808.96	3/4	1,197.27	3/4	1,585.58	3/4	1,973.90	3/4	2,362.21	3/4	2,750.53	3/4	3,138.85	3/4	3,527.15
1	41.98	1	429.11	1	817.04	1	1,205.36	1	1,593.67	1	1,981.99	1	2,370.30	1	2,758.62	1	3,146.94	1	3,535.24
1/4	49.78	1/4	437.20	1/4	825.13	1/4	1,213.45	1/4	1,601.76	1/4	1,990.08	1/4	2,378.39	1/4	2,766.71	1/4	3,155.03	1/4	3,543.33
1/2	57.58	1/2	445.29	1/2	833.22	1/2	1,221.54	1/2	1,609.85	1/2	1,998.17	1/2	2,386.48	1/2	2,774.80	1/2	3,163.12	1/2	3,551.42
3/4	65.38	3/4	453.38	3/4	841.31	3/4	1,229.63	3/4	1,617.94	3/4	2,006.26	3/4	2,394.57	3/4	2,782.89	3/4	3,171.20	3/4	3,559.51
2	73.18	2	461.46	2	849.40	2	1,237.72	2	1,626.03	2	2,014.35	2	2,402.66	2	2,790.98	2	3,179.29	2	3,567.59
1/4	81.27	1/4	469.55	1/4	857.49	1/4	1,245.81	1/4	1,634.12	1/4	2,022.44	1/4	2,410.75	1/4	2,799.07	1/4	3,187.38	1/4	3,575.68
1/2	89.36	1/2	477.64	1/2	865.58	1/2	1,253.90	1/2	1,642.21	1/2	2,030.53	1/2	2,418.84	1/2	2,807.16	1/2	3,195.47	1/2	3,583.77
3/4	97.45	3/4	485.73	3/4	873.67	3/4	1,261.99	3/4	1,650.30	3/4	2,038.62	3/4	2,426.93	3/4	2,815.25	3/4	3,203.56	3/4	3,591.86
3	105.54	3	493.82	3	881.76	3	1,270.08	3	1,658.39	3	2,046.71	3	2,435.02	3	2,823.34	3	3,211.65	3	3,599.95
1/4	113.63	1/4	501.91	1/4	889.85	1/4	1,278.17	1/4	1,666.48	1/4	2,054.80	1/4	2,443.11	1/4	2,831.43	1/4	3,219.74	1/4	3,608.04
1/2	121.71	1/2	510.00	1/2	897.94	1/2	1,286.26	1/2	1,674.57	1/2	2,062.89	1/2	2,451.20	1/2	2,839.52	1/2	3,227.83	1/2	3,616.13
3/4	129.80	3/4	518.09	3/4	906.03	3/4	1,294.35	3/4	1,682.66	3/4	2,070.98	3/4	2,459.29	3/4	2,847.61	3/4	3,235.92	3/4	3,624.22
4	137.89	4	526.18	4	914.12	4	1,302.44	4	1,690.75	4	2,079.07	4	2,467.38	4	2,855.70	4	3,244.01	4	3,632.31
1/4	145.98	1/4	534.27	1/4	922.21	1/4	1,310.53	1/4	1,698.84	1/4	2,087.16	1/4	2,475.47	1/4	2,863.79	1/4	3,252.10	1/4	3,640.39
1/2	154.07	1/2	542.36	1/2	930.30	1/2	1,318.62	1/2	1,706.93	1/2	2,095.25	1/2	2,483.56	1/2	2,871.88	1/2	3,260.19	1/2	3,648.48
3/4	162.16	3/4	550.45	3/4	938.39	3/4	1,326.71	3/4	1,715.02	3/4	2,103.34	3/4	2,491.65	3/4	2,879.97	3/4	3,268.28	3/4	3,656.57
5	170.25	5	558.54	5	946.48	5	1,334.80	5	1,723.11	5	2,111.43	5	2,499.74	5	2,888.06	5	3,276.37	5	3,664.66
1/4	178.34	1/4	566.62	1/4	954.57	1/4	1,342.89	1/4	1,731.20	1/4	2,119.52	1/4	2,507.83	1/4	2,896.15	1/4	3,284.46	1/4	3,672.75
1/2	186.43	1/2	574.70	1/2	962.66	1/2	1,350.98	1/2	1,739.29	1/2	2,127.61	1/2	2,515.92	1/2	2,904.24	1/2	3,292.55	1/2	3,680.84
3/4	194.52	3/4	582.77	3/4	970.75	3/4	1,359.07	3/4	1,747.38	3/4	2,135.70	3/4	2,524.01	3/4	2,912.33	3/4	3,300.64	3/4	3,688.93
6	202.61	6	590.85	6	978.84	6	1,367.16	6	1,755.47	6	2,143.79	6	2,532.10	6	2,920.42	6	3,308.73	6	3,697.02
1/4	210.70	1/4	598.93	1/4	986.93	1/4	1,375.25	1/4	1,763.56	1/4	2,151.88	1/4	2,540.19	1/4	2,928.51	1/4	3,316.82	1/4	3,705.11
1/2	218.79	1/2	607.01	1/2	995.02	1/2	1,383.34	1/2	1,771.65	1/2	2,159.97	1/2	2,548.28	1/2	2,936.60	1/2	3,324.91	1/2	3,713.19
3/4	226.88	3/4	615.09	3/4	1,003.11	3/4	1,391.43	3/4	1,779.74	3/4	2,168.06	3/4	2,556.37	3/4	2,944.69	3/4	3,333.00	3/4	3,721.28
7	234.96	7	623.17	7	1,011.20	7	1,399.52	7	1,787.83	7	2,176.15	7	2,564.46	7	2,952.78	7	3,341.09	7	3,729.37
1/4	243.05	1/4	631.25	1/4	1,019.29	1/4	1,407.61	1/4	1,795.92	1/4	2,184.24	1/4	2,572.55	1/4	2,960.87	1/4	3,349.18	1/4	3,737.46
1/2	251.14	1/2	639.33	1/2	1,027.38	1/2	1,415.70	1/2	1,804.01	1/2	2,192.33	1/2	2,580.64	1/2	2,968.96	1/2	3,357.27	1/2	3,745.55
3/4	259.23	3/4	647.41	3/4	1,035.47	3/4	1,423.79	3/4	1,812.10	3/4	2,200.42	3/4	2,588.73	3/4	2,977.05	3/4	3,365.36	3/4	3,753.64
8	267.32	8	655.49	8	1,043.56	8	1,431.88	8	1,820.19	8	2,208.51	8	2,596.82	8	2,985.14	8	3,373.45	8	3,761.73
1/4	275.41	1/4	663.56	1/4	1,051.65	1/4	1,439.97	1/4	1,828.28	1/4	2,216.60	1/4	2,604.91	1/4	2,993.23	1/4	3,381.54	1/4	3,769.82
1/2	283.50	1/2	671.64	1/2	1,059.74	1/2	1,448.06	1/2	1,836.37	1/2	2,224.69	1/2	2,613.00	1/2	3,001.32	1/2	3,389.63	1/2	3,777.91
3/4	291.59	3/4	679.71	3/4	1,067.83	3/4	1,456.15	3/4	1,844.46	3/4	2,232.78	3/4	2,621.09	3/4	3,009.41	3/4	3,397.72	3/4	3,785.99
9	299.68	9	687.79	9	1,075.92	9	1,464.24	9	1,852.55	9	2,240.87	9	2,629.18	9	3,017.50	9	3,405.81	9	3,794.08
1/4	307.77	1/4	695.86	1/4	1,084.01	1/4	1,472.33	1/4	1,860.64	1/4	2,248.96	1/4	2,637.27	1/4	3,025.59	1/4	3,413.90	1/4	3,802.17
1/2	315.86	1/2	703.94	1/2	1,092.10	1/2	1,480.42	1/2	1,868.73	1/2	2,257.05	1/2	2,645.36	1/2	3,033.68	1/2	3,421.99	1/2	3,810.26
3/4	323.95	3/4	712.01	3/4	1,100.19	3/4	1,488.51	3/4	1,876.82	3/4	2,265.14	3/4	2,653.45	3/4	3,041.77	3/4	3,430.08	3/4	3,818.35
10	332.04	10	720.09	10	1,108.28	10	1,496.60	10	1,884.91	10	2,273.23	10	2,661.54	10	3,049.86	10	3,438.17	10	3,826.44
1/4	340.13	1/4	728.17	1/4	1,116.37	1/4	1,504.69	1/4	1,893.00	1/4	2,281.32	1/4	2,669.63	1/4	3,057.95	1/4	3,446.26	1/4	3,834.53
1/2	348.21	1/2	736.25	1/2	1,124.46	1/2	1,512.78	1/2	1,901.09	1/2	2,289.41	1/2	2,677.72	1/2	3,066.04	1/2	3,454.35	1/2	3,842.62
3/4	356.30	3/4	744.33	3/4	1,132.55	3/4	1,520.87	3/4	1,909.18	3/4	2,297.50	3/4	2,685.81	3/4	3,074.13	3/4	3,462.44	3/4	3,850.71
11	364.39	11	752.41	11	1,140.64	11	1,528.96	11	1,917.27	11	2,305.59	11	2,693.90	11	3,082.22	11	3,470.53	11	3,858.79
1/4	372.48	1/4	760.49	1/4	1,148.73	1/4	1,537.05	1/4	1,925.36	1/4	2,313.68	1/4	2,701.99	1/4	3,090.31	1/4	3,478.62	1/4	3,866.88
1/2	380.57	1/2	768.57	1/2	1,156.82	1/2	1,545.14	1/2	1,933.45	1/2	2,321.77	1/2	2,710.08	1/2	3,098.40	1/2	3,486.71	1/2	3,874.97
3/4	388.66	3/4	776.65	3/4	1,164.91	3/4	1,553.22	3/4	1,941.54	3/4	2,329.86	3/4	2,718.17	3/4	3,106.49	3/4	3,494.79	3/4	3,883.06

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

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







# BARGE "EMS 384"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,891.15	0	4,279.42	0	4,667.68	0	5,055.00	0		0		0		0		0		0	
1/4	3,899.24	1/4	4,287.51	1/4	4,675.77	1/4	5,063.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,907.33	1/2	4,295.60	1/2	4,683.86	1/2	5,071.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,915.42	3/4	4,303.68	3/4	4,691.95	3/4	5,079.13	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,923.51	1	4,311.77	1	4,700.04	1	5,087.17	1		1		1		1		1		1	
1/4	3,931.59	1/4	4,319.86	1/4	4,708.13	1/4	5,095.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,939.68	1/2	4,327.95	1/2	4,716.22	1/2	5,103.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,947.77	3/4	4,336.04	3/4	4,724.31	3/4	5,111.29	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,955.86	2	4,344.13	2	4,732.40	2	5,119.33	2		2		2		2		2		2	
1/4	3,963.95	1/4	4,352.22	1/4	4,740.48	1/4	5,127.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,972.04	1/2	4,360.31	1/2	4,748.57	1/2	5,135.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,980.13	3/4	4,368.40	3/4	4,756.66	3/4	5,143.46	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,988.22	3	4,376.48	3	4,764.75	3	5,151.50	3		3		3		3		3		3	
1/4	3,996.31	1/4	4,384.57	1/4	4,772.84	1/4	5,159.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,004.39	1/2	4,392.66	1/2	4,780.93	1/2	5,167.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,012.48	3/4	4,400.75	3/4	4,789.02	3/4	5,175.62	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,020.57	4	4,408.84	4	4,797.11	4	5,183.66	4		4		4		4		4		4	
1/4	4,028.66	1/4	4,416.93	1/4	4,805.20	1/4	5,191.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,036.75	1/2	4,425.02	1/2	4,813.28	1/2	5,199.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,044.84	3/4	4,433.11	3/4	4,821.37	3/4	5,207.79	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,052.93	5	4,441.20	5	4,829.46	5	5,215.83	5		5		5		5		5		5	
1/4	4,061.02	1/4	4,449.28	1/4	4,837.55	1/4	5,223.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,069.11	1/2	4,457.37	1/2	4,845.64	1/2	5,231.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,077.19	3/4	4,465.46	3/4	4,853.73	3/4	5,239.95	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,085.28	6	4,473.55	6	4,861.82	6	5,248.00	6		6		6		6		6		6	
1/4	4,093.37	1/4	4,481.64	1/4	4,869.91	1/4	5,256.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,101.46	1/2	4,489.73	1/2	4,878.00	1/2	5,264.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,109.55	3/4	4,497.82	3/4	4,886.08	3/4	5,272.12	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,117.64	7	4,505.91	7	4,894.17	7	5,280.16	7		7		7		7		7		7	
1/4	4,125.73	1/4	4,514.00	1/4	4,902.22	1/4	5,288.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,133.82	1/2	4,522.08	1/2	4,910.26	1/2	5,296.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,141.91	3/4	4,530.17	3/4	4,918.30	3/4	5,304.03	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,149.99	8	4,538.26	8	4,926.34	8	5,311.98	8		8		8		8		8		8	
1/4	4,158.08	1/4	4,546.35	1/4	4,934.38	1/4	5,319.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,166.17	1/2	4,554.44	1/2	4,942.42	1/2	5,327.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,174.26	3/4	4,562.53	3/4	4,950.46	3/4	5,334.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,182.35	9	4,570.62	9	4,958.50	9	5,342.15	9		9		9		9		9		9	
1/4	4,190.44	1/4	4,578.71	1/4	4,966.55	1/4	5,348.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,198.53	1/2	4,586.80	1/2	4,974.59	1/2	5,354.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,206.62	3/4	4,594.88	3/4	4,982.63	3/4	5,360.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,214.71	10	4,602.97	10	4,990.67	10		10		10		10		10		10		10	
1/4	4,222.79	1/4	4,611.06	1/4	4,998.71	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,230.88	1/2	4,619.15	1/2	5,006.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,238.97	3/4	4,627.24	3/4	5,014.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,247.06	11	4,635.33	11	5,022.84	11		11		11		11		11		11		11	
1/4	4,255.15	1/4	4,643.42	1/4	5,030.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,263.24	1/2	4,651.51	1/2	5,038.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,271.33	3/4	4,659.60	3/4	5,046.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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



# BARGE "EMS 384"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.56	0	368.75	0	720.31	0	1,076.21	0	1,436.87	0	1,797.33	0	2,157.28	0	2,518.09	0	2,878.91	0	3,239.37
1/4	22.93	1/4	376.27	1/4	727.54	1/4	1,083.73	1/4	1,444.38	1/4	1,804.83	1/4	2,164.79	1/4	2,525.61	1/4	2,886.42	1/4	3,246.89
1/2	28.30	1/2	383.79	1/2	734.77	1/2	1,091.24	1/2	1,451.90	1/2	1,812.32	1/2	2,172.31	1/2	2,533.13	1/2	2,893.93	1/2	3,254.40
3/4	33.67	3/4	391.31	3/4	742.00	3/4	1,098.75	3/4	1,459.41	3/4	1,819.81	3/4	2,179.83	3/4	2,540.64	3/4	2,901.44	3/4	3,261.92
1	39.04	1	398.82	1	749.22	1	1,106.27	1	1,466.93	1	1,827.31	1	2,187.34	1	2,548.16	1	2,908.95	1	3,269.43
1/4	46.29	1/4	406.34	1/4	756.46	1/4	1,113.78	1/4	1,474.44	1/4	1,834.80	1/4	2,194.86	1/4	2,555.68	1/4	2,916.46	1/4	3,276.95
1/2	53.54	1/2	413.86	1/2	763.70	1/2	1,121.30	1/2	1,481.95	1/2	1,842.30	1/2	2,202.38	1/2	2,566.19	1/2	2,923.97	1/2	3,284.47
3/4	60.79	3/4	421.38	3/4	770.94	3/4	1,128.81	3/4	1,489.47	3/4	1,849.79	3/4	2,209.89	3/4	2,570.71	3/4	2,931.48	3/4	3,291.98
2	68.04	2	428.90	2	778.17	2	1,136.32	2	1,496.98	2	1,857.28	2	2,217.41	2	2,578.23	2	2,938.99	2	3,299.50
1/4	75.55	1/4	436.41	1/4	785.40	1/4	1,143.84	1/4	1,504.49	1/4	1,864.78	1/4	2,224.93	1/4	2,585.74	1/4	2,946.49	1/4	3,307.01
1/2	83.07	1/2	443.93	1/2	792.63	1/2	1,151.35	1/2	1,512.01	1/2	1,872.27	1/2	2,232.45	1/2	2,593.26	1/2	2,954.00	1/2	3,314.53
3/4	90.59	3/4	451.45	3/4	799.85	3/4	1,158.86	3/4	1,519.52	3/4	1,879.77	3/4	2,239.96	3/4	2,600.78	3/4	2,961.51	3/4	3,322.05
3	98.11	3	458.97	3	807.08	3	1,166.38	3	1,527.04	3	1,887.26	3	2,247.48	3	2,608.30	3	2,969.02	3	3,329.56
1/4	105.63	1/4	466.49	1/4	814.31	1/4	1,173.89	1/4	1,534.55	1/4	1,894.75	1/4	2,255.00	1/4	2,615.81	1/4	2,976.53	1/4	3,337.08
1/2	113.14	1/2	474.00	1/2	821.54	1/2	1,181.40	1/2	1,542.06	1/2	1,902.25	1/2	2,262.51	1/2	2,623.33	1/2	2,984.04	1/2	3,344.60
3/4	120.66	3/4	481.52	3/4	828.76	3/4	1,188.92	3/4	1,549.58	3/4	1,909.74	3/4	2,270.03	3/4	2,630.85	3/4	2,991.55	3/4	3,352.11
4	128.18	4	489.04	4	835.99	4	1,196.43	4	1,557.09	4	1,917.24	4	2,277.55	4	2,638.36	4	2,999.06	4	3,359.63
1/4	135.70	1/4	496.28	1/4	843.50	1/4	1,203.95	1/4	1,564.60	1/4	1,924.73	1/4	2,285.06	1/4	2,645.88	1/4	3,006.57	1/4	3,367.14
1/2	143.22	1/2	503.51	1/2	851.00	1/2	1,211.46	1/2	1,572.12	1/2	1,932.22	1/2	2,292.58	1/2	2,653.40	1/2	3,014.08	1/2	3,374.66
3/4	150.73	3/4	510.75	3/4	858.50	3/4	1,218.97	3/4	1,579.63	3/4	1,939.72	3/4	2,300.10	3/4	2,660.91	3/4	3,021.59	3/4	3,382.18
5	158.25	5	517.98	5	866.01	5	1,226.49	5	1,587.14	5	1,947.21	5	2,307.62	5	2,668.43	5	3,029.10	5	3,389.69
1/4	165.77	1/4	525.21	1/4	873.51	1/4	1,234.00	1/4	1,594.66	1/4	1,954.71	1/4	2,315.13	1/4	2,675.95	1/4	3,036.61	1/4	3,396.07
1/2	173.29	1/2	532.44	1/2	881.02	1/2	1,241.51	1/2	1,602.17	1/2	1,962.20	1/2	2,322.65	1/2	2,683.47	1/2	3,044.12	1/2	3,402.44
3/4	180.81	3/4	539.67	3/4	888.52	3/4	1,249.03	3/4	1,609.69	3/4	1,969.69	3/4	2,330.17	3/4	2,690.98	3/4	3,051.63	3/4	3,408.82
6	188.32	6	546.89	6	896.03	6	1,256.54	6	1,617.20	6	1,977.19	6	2,337.68	6	2,698.50	6	3,059.14	6	3,415.19
1/4	195.84	1/4	554.12	1/4	903.53	1/4	1,264.06	1/4	1,624.71	1/4	1,984.68	1/4	2,345.20	1/4	2,706.02	1/4	3,066.65	1/4	3,421.56
1/2	203.36	1/2	561.35	1/2	911.04	1/2	1,271.57	1/2	1,632.23	1/2	1,992.18	1/2	2,352.72	1/2	2,713.53	1/2	3,074.16	1/2	3,427.94
3/4	210.88	3/4	568.58	3/4	918.54	3/4	1,279.08	3/4	1,639.74	3/4	1,999.67	3/4	2,360.23	3/4	2,721.05	3/4	3,081.67	3/4	3,434.31
7	218.39	7	575.80	7	926.05	7	1,286.60	7	1,647.25	7	2,007.16	7	2,367.75	7	2,728.57	7	3,089.18	7	3,440.69
1/4	225.91	1/4	583.03	1/4	933.55	1/4	1,294.11	1/4	1,654.77	1/4	2,014.66	1/4	2,375.27	1/4	2,736.08	1/4	3,096.69	1/4	3,447.06
1/2	233.43	1/2	590.26	1/2	941.06	1/2	1,301.62	1/2	1,662.28	1/2	2,022.15	1/2	2,382.79	1/2	2,743.60	1/2	3,104.20	1/2	3,453.43
3/4	240.95	3/4	597.49	3/4	948.56	3/4	1,309.14	3/4	1,669.80	3/4	2,029.65	3/4	2,390.30	3/4	2,751.12	3/4	3,111.71	3/4	3,459.81
8	248.47	8	604.71	8	956.07	8	1,316.65	8	1,677.31	8	2,037.14	8	2,397.82	8	2,758.64	8	3,119.22	8	3,466.18
1/4	255.98	1/4	611.94	1/4	963.57	1/4	1,324.17	1/4	1,684.82	1/4	2,044.63	1/4	2,405.34	1/4	2,766.15	1/4	3,126.73	1/4	3,472.56
1/2	263.50	1/2	619.16	1/2	971.08	1/2	1,331.68	1/2	1,692.34	1/2	2,052.13	1/2	2,412.85	1/2	2,773.67	1/2	3,134.24	1/2	3,478.93
3/4	271.02	3/4	626.38	3/4	978.58	3/4	1,339.19	3/4	1,699.85	3/4	2,059.62	3/4	2,420.37	3/4	2,781.19	3/4	3,141.75	3/4	3,485.30
9	278.54	9	633.60	9	986.08	9	1,346.71	9	1,707.36	9	2,067.12	9	2,427.89	9	2,788.70	9	3,149.26	9	3,491.68
1/4	286.06	1/4	640.83	1/4	993.59	1/4	1,354.22	1/4	1,714.87	1/4	2,074.62	1/4	2,435.40	1/4	2,796.22	1/4	3,156.77	1/4	3,498.05
1/2	293.57	1/2	648.05	1/2	1,001.09	1/2	1,361.73	1/2	1,722.37	1/2	2,082.13	1/2	2,442.92	1/2	2,803.74	1/2	3,164.28	1/2	3,504.43
3/4	301.09	3/4	655.27	3/4	1,008.60	3/4	1,369.25	3/4	1,729.88	3/4	2,089.63	3/4	2,450.44	3/4	2,811.25	3/4	3,171.79	3/4	3,510.80
10	308.61	10	662.49	10	1,016.10	10	1,376.76	10	1,737.38	10	2,097.14	10	2,457.96	10	2,818.77	10	3,179.30	10	3,517.17
1/4	316.13	1/4	669.72	1/4	1,023.62	1/4	1,384.27	1/4	1,744.87	1/4	2,104.66	1/4	2,465.47	1/4	2,826.29	1/4	3,186.80	1/4	3,523.55
1/2	323.65	1/2	676.95	1/2	1,031.13	1/2	1,391.79	1/2	1,752.37	1/2	2,112.17	1/2	2,472.99	1/2	2,833.81	1/2	3,194.31	1/2	3,529.92
3/4	331.16	3/4	684.18	3/4	1,038.64	3/4	1,399.30	3/4	1,759.86	3/4	2,119.69	3/4	2,480.51	3/4	2,841.32	3/4	3,201.82	3/4	3,536.30
11	338.68	11	691.40	11	1,046.16	11	1,406.82	11	1,767.36	11	2,127.21	11	2,488.02	11	2,848.84	11	3,209.33	11	3,542.67
1/4	346.20	1/4	698.63	1/4	1,053.67	1/4	1,414.33	1/4	1,774.85	1/4	2,134.72	1/4	2,495.54	1/4	2,856.36	1/4	3,216.84	1/4	3,549.04
1/2	353.72	1/2	705.86	1/2	1,061.19	1/2	1,421.84	1/2	1,782.34	1/2	2,142.24	1/2	2,503.06	1/2	2,863.87	1/2	3,224.35	1/2	3,555.42
3/4	361.23	3/4	713.09	3/4	1,068.70	3/4	1,429.36	3/4	1,789.84	3/4	2,149.76	3/4	2,510.57	3/4	2,871.39	3/4	3,231.86	3/4	3,561.79

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 384"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,568.17	0	3,874.12	0	4,180.07	0	4,485.29	0		0		0		0		0		0	
1/4	3,574.54	1/4	3,880.49	1/4	4,186.44	1/4	4,491.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,580.91	1/2	3,886.87	1/2	4,192.82	1/2	4,497.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,587.29	3/4	3,893.24	3/4	4,199.19	3/4	4,504.30	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,593.66	1	3,899.61	1	4,205.57	1	4,510.64	1		1		1		1		1		1	
1/4	3,600.04	1/4	3,905.99	1/4	4,211.94	1/4	4,516.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,606.41	1/2	3,912.36	1/2	4,218.31	1/2	4,523.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,612.78	3/4	3,918.74	3/4	4,224.69	3/4	4,529.65	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,619.16	2	3,925.11	2	4,231.06	2	4,535.99	2		2		2		2		2		2	
1/4	3,625.53	1/4	3,931.48	1/4	4,237.44	1/4	4,542.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,631.91	1/2	3,937.86	1/2	4,243.81	1/2	4,548.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,638.28	3/4	3,944.23	3/4	4,250.18	3/4	4,555.00	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,644.65	3	3,950.61	3	4,256.56	3	4,561.34	3		3		3		3		3		3	
1/4	3,651.03	1/4	3,956.98	1/4	4,262.93	1/4	4,567.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,657.40	1/2	3,963.35	1/2	4,269.31	1/2	4,574.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,663.78	3/4	3,969.73	3/4	4,275.68	3/4	4,580.35	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,670.15	4	3,976.10	4	4,282.05	4	4,586.69	4		4		4		4		4		4	
1/4	3,676.52	1/4	3,982.48	1/4	4,288.43	1/4	4,593.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,682.90	1/2	3,988.85	1/2	4,294.80	1/2	4,599.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.27	3/4	3,995.22	3/4	4,301.18	3/4	4,605.70	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,695.65	5	4,001.60	5	4,307.55	5	4,612.04	5		5		5		5		5		5	
1/4	3,702.02	1/4	4,007.97	1/4	4,313.92	1/4	4,618.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.39	1/2	4,014.35	1/2	4,320.30	1/2	4,624.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,714.77	3/4	4,020.72	3/4	4,326.67	3/4	4,631.05	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,721.14	6	4,027.09	6	4,333.05	6	4,637.39	6		6		6		6		6		6	
1/4	3,727.52	1/4	4,033.47	1/4	4,339.42	1/4	4,643.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,733.89	1/2	4,039.84	1/2	4,345.79	1/2	4,650.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.26	3/4	4,046.22	3/4	4,352.17	3/4	4,656.40	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,746.64	7	4,052.59	7	4,358.54	7	4,662.74	7		7		7		7		7		7	
1/4	3,753.01	1/4	4,058.96	1/4	4,364.88	1/4	4,670.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,759.39	1/2	4,065.34	1/2	4,371.22	1/2	4,677.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,765.76	3/4	4,071.71	3/4	4,377.55	3/4	4,684.92	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,772.13	8	4,078.09	8	4,383.89	8	4,692.31	8		8		8		8		8		8	
1/4	3,778.51	1/4	4,084.46	1/4	4,390.23	1/4	4,699.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,784.88	1/2	4,090.83	1/2	4,396.57	1/2	4,706.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,791.26	3/4	4,097.21	3/4	4,402.90	3/4	4,713.34	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,797.63	9	4,103.58	9	4,409.24	9	4,720.35	9		9		9		9		9		9	
1/4	3,804.00	1/4	4,109.96	1/4	4,415.58	1/4	4,726.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,810.38	1/2	4,116.33	1/2	4,421.92	1/2	4,731.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,816.75	3/4	4,122.70	3/4	4,428.25	3/4	4,737.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,823.13	10	4,129.08	10	4,434.59	10	=====	10		10		10		10		10		10	
1/4	3,829.50	1/4	4,135.45	1/4	4,440.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,835.87	1/2	4,141.83	1/2	4,447.26	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,842.25	3/4	4,148.20	3/4	4,453.60	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,848.62	11	4,154.57	11	4,459.94	11		11		11		11		11		11		11	
1/4	3,855.00	1/4	4,160.95	1/4	4,466.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,861.37	1/2	4,167.32	1/2	4,472.61	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,867.74	3/4	4,173.70	3/4	4,478.95	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/22/2013 CL - SW  
 CALCULATED: 04/22/2013 CL  
 PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 04/2013

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 384"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.56	0	368.24	0	721.03	0	1,077.61	0	1,437.79	0	1,797.22	0	2,154.63	0	2,514.66	0	2,874.88	0	3,234.79
1/4	22.93	1/4	375.74	1/4	728.30	1/4	1,085.12	1/4	1,445.29	1/4	1,804.65	1/4	2,162.13	1/4	2,522.16	1/4	2,882.38	1/4	3,242.29
1/2	28.30	1/2	383.25	1/2	735.57	1/2	1,092.62	1/2	1,452.79	1/2	1,812.08	1/2	2,169.64	1/2	2,529.65	1/2	2,889.88	1/2	3,249.79
3/4	33.67	3/4	390.76	3/4	742.84	3/4	1,100.12	3/4	1,460.30	3/4	1,819.51	3/4	2,177.15	3/4	2,537.15	3/4	2,897.38	3/4	3,257.30
1	39.04	1	398.26	1	750.11	1	1,107.63	1	1,467.80	1	1,826.94	1	2,184.65	1	2,544.65	1	2,904.88	1	3,264.80
1/4	46.28	1/4	405.77	1/4	757.40	1/4	1,115.13	1/4	1,475.30	1/4	1,834.37	1/4	2,192.16	1/4	2,552.15	1/4	2,912.37	1/4	3,272.31
1/2	53.51	1/2	413.28	1/2	764.68	1/2	1,122.63	1/2	1,482.81	1/2	1,841.80	1/2	2,199.67	1/2	2,559.66	1/2	2,919.87	1/2	3,279.81
3/4	60.75	3/4	420.78	3/4	771.96	3/4	1,130.14	3/4	1,490.31	3/4	1,849.23	3/4	2,207.17	3/4	2,567.16	3/4	2,927.37	3/4	3,287.32
2	67.99	2	428.29	2	779.24	2	1,137.64	2	1,497.81	2	1,856.66	2	2,214.68	2	2,574.67	2	2,934.87	2	3,294.82
1/4	75.50	1/4	435.79	1/4	786.52	1/4	1,145.14	1/4	1,505.32	1/4	1,864.09	1/4	2,222.19	1/4	2,582.17	1/4	2,942.37	1/4	3,302.33
1/2	83.00	1/2	443.30	1/2	793.81	1/2	1,152.65	1/2	1,512.82	1/2	1,871.52	1/2	2,229.69	1/2	2,589.68	1/2	2,949.86	1/2	3,309.83
3/4	90.51	3/4	450.81	3/4	801.09	3/4	1,160.15	3/4	1,520.32	3/4	1,878.95	3/4	2,237.20	3/4	2,597.18	3/4	2,957.36	3/4	3,317.33
3	98.02	3	458.31	3	808.37	3	1,167.66	3	1,527.83	3	1,886.38	3	2,244.71	3	2,604.69	3	2,964.86	3	3,324.84
1/4	105.52	1/4	465.82	1/4	815.65	1/4	1,175.16	1/4	1,535.33	1/4	1,893.81	1/4	2,252.22	1/4	2,612.19	1/4	2,972.36	1/4	3,332.34
1/2	113.03	1/2	473.33	1/2	822.93	1/2	1,182.66	1/2	1,542.84	1/2	1,901.24	1/2	2,259.72	1/2	2,619.70	1/2	2,979.86	1/2	3,339.85
3/4	120.53	3/4	480.83	3/4	830.22	3/4	1,190.17	3/4	1,550.34	3/4	1,908.67	3/4	2,267.23	3/4	2,627.20	3/4	2,987.35	3/4	3,347.35
4	128.04	4	488.34	4	837.50	4	1,197.67	4	1,557.84	4	1,916.10	4	2,274.74	4	2,634.71	4	2,994.85	4	3,354.86
1/4	135.55	1/4	495.62	1/4	845.00	1/4	1,205.17	1/4	1,565.35	1/4	1,923.53	1/4	2,282.24	1/4	2,642.22	1/4	3,002.35	1/4	3,362.36
1/2	143.05	1/2	502.90	1/2	852.50	1/2	1,212.68	1/2	1,572.85	1/2	1,930.96	1/2	2,289.75	1/2	2,649.72	1/2	3,009.85	1/2	3,369.87
3/4	150.56	3/4	510.18	3/4	860.01	3/4	1,220.18	3/4	1,580.35	3/4	1,938.39	3/4	2,297.26	3/4	2,657.23	3/4	3,017.35	3/4	3,377.37
5	158.06	5	517.46	5	867.51	5	1,227.68	5	1,587.86	5	1,945.82	5	2,304.76	5	2,664.73	5	3,024.84	5	3,384.88
1/4	165.57	1/4	524.73	1/4	875.02	1/4	1,235.19	1/4	1,595.36	1/4	1,953.25	1/4	2,312.26	1/4	2,672.24	1/4	3,032.34	1/4	3,391.25
1/2	173.08	1/2	532.01	1/2	882.52	1/2	1,242.69	1/2	1,602.86	1/2	1,960.68	1/2	2,319.76	1/2	2,679.74	1/2	3,039.84	1/2	3,397.62
3/4	180.58	3/4	539.28	3/4	890.02	3/4	1,250.20	3/4	1,610.37	3/4	1,968.11	3/4	2,327.25	3/4	2,687.25	3/4	3,047.34	3/4	3,404.00
6	188.09	6	546.55	6	897.53	6	1,257.70	6	1,617.87	6	1,975.54	6	2,334.75	6	2,694.75	6	3,054.84	6	3,410.37
1/4	195.60	1/4	553.82	1/4	905.03	1/4	1,265.20	1/4	1,625.38	1/4	1,982.97	1/4	2,342.25	1/4	2,702.26	1/4	3,062.34	1/4	3,416.74
1/2	203.10	1/2	561.09	1/2	912.53	1/2	1,272.71	1/2	1,632.88	1/2	1,990.40	1/2	2,349.74	1/2	2,709.76	1/2	3,069.83	1/2	3,423.12
3/4	210.61	3/4	568.36	3/4	920.04	3/4	1,280.21	3/4	1,640.38	3/4	1,997.83	3/4	2,357.24	3/4	2,717.27	3/4	3,077.33	3/4	3,429.49
7	218.11	7	575.64	7	927.54	7	1,287.71	7	1,647.89	7	2,005.26	7	2,364.73	7	2,724.77	7	3,084.83	7	3,435.87
1/4	225.62	1/4	582.91	1/4	935.04	1/4	1,295.22	1/4	1,655.39	1/4	2,012.69	1/4	2,372.23	1/4	2,732.28	1/4	3,092.33	1/4	3,442.24
1/2	233.13	1/2	590.18	1/2	942.55	1/2	1,302.72	1/2	1,662.89	1/2	2,020.12	1/2	2,379.73	1/2	2,739.79	1/2	3,099.83	1/2	3,448.61
3/4	240.63	3/4	597.45	3/4	950.05	3/4	1,310.22	3/4	1,670.40	3/4	2,027.55	3/4	2,387.22	3/4	2,747.29	3/4	3,107.32	3/4	3,454.99
8	248.14	8	604.72	8	957.55	8	1,317.73	8	1,677.90	8	2,034.98	8	2,394.72	8	2,754.80	8	3,114.82	8	3,461.36
1/4	255.65	1/4	611.99	1/4	965.06	1/4	1,325.23	1/4	1,685.40	1/4	2,042.41	1/4	2,402.22	1/4	2,762.30	1/4	3,122.32	1/4	3,467.73
1/2	263.15	1/2	619.26	1/2	972.56	1/2	1,332.73	1/2	1,692.91	1/2	2,049.83	1/2	2,409.71	1/2	2,769.81	1/2	3,129.82	1/2	3,474.11
3/4	270.66	3/4	626.52	3/4	980.07	3/4	1,340.24	3/4	1,700.41	3/4	2,057.26	3/4	2,417.21	3/4	2,777.31	3/4	3,137.32	3/4	3,480.48
9	278.16	9	633.79	9	987.57	9	1,347.74	9	1,707.91	9	2,064.69	9	2,424.70	9	2,784.82	9	3,144.81	9	3,486.86
1/4	285.67	1/4	641.06	1/4	995.07	1/4	1,355.25	1/4	1,715.38	1/4	2,072.16	1/4	2,432.20	1/4	2,792.32	1/4	3,152.31	1/4	3,493.23
1/2	293.18	1/2	648.32	1/2	1,002.58	1/2	1,362.75	1/2	1,722.85	1/2	2,079.63	1/2	2,439.70	1/2	2,799.83	1/2	3,159.81	1/2	3,499.60
3/4	300.68	3/4	655.59	3/4	1,010.08	3/4	1,370.25	3/4	1,730.31	3/4	2,087.10	3/4	2,447.19	3/4	2,807.33	3/4	3,167.31	3/4	3,505.98
10	308.19	10	662.86	10	1,017.58	10	1,377.76	10	1,737.78	10	2,094.57	10	2,454.69	10	2,814.84	10	3,174.81	10	3,512.35
1/4	315.69	1/4	670.13	1/4	1,025.09	1/4	1,385.26	1/4	1,745.21	1/4	2,102.08	1/4	2,462.19	1/4	2,822.34	1/4	3,182.30	1/4	3,518.72
1/2	323.20	1/2	677.40	1/2	1,032.59	1/2	1,392.76	1/2	1,752.64	1/2	2,109.58	1/2	2,469.68	1/2	2,829.85	1/2	3,189.80	1/2	3,525.10
3/4	330.71	3/4	684.67	3/4	1,040.09	3/4	1,400.27	3/4	1,760.07	3/4	2,117.09	3/4	2,477.18	3/4	2,837.36	3/4	3,197.30	3/4	3,531.47
11	338.21	11	691.94	11	1,047.60	11	1,407.77	11	1,767.50	11	2,124.60	11	2,484.67	11	2,844.86	11	3,204.80	11	3,537.85
1/4	345.72	1/4	699.21	1/4	1,055.10	1/4	1,415.27	1/4	1,774.93	1/4	2,132.10	1/4	2,492.17	1/4	2,852.37	1/4	3,212.29	1/4	3,544.22
1/2	353.23	1/2	706.49	1/2	1,062.61	1/2	1,422.78	1/2	1,782.36	1/2	2,139.61	1/2	2,499.67	1/2	2,859.87	1/2	3,219.79	1/2	3,550.59
3/4	360.73	3/4	713.76	3/4	1,070.11	3/4	1,430.28	3/4	1,789.79	3/4	2,147.12	3/4	2,507.16	3/4	2,867.38	3/4	3,227.29	3/4	3,556.97

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "EMS 384"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,563.34	0	3,869.28	0	4,175.23	0	4,480.44	0		0		0		0		0		0	
1/4	3,569.72	1/4	3,875.66	1/4	4,181.60	1/4	4,486.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,576.09	1/2	3,882.03	1/2	4,187.97	1/2	4,493.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,582.46	3/4	3,888.41	3/4	4,194.35	3/4	4,499.46	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,588.84	1	3,894.78	1	4,200.72	1	4,505.79	1		1		1		1		1		1	
1/4	3,595.21	1/4	3,901.15	1/4	4,207.10	1/4	4,512.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,601.58	1/2	3,907.53	1/2	4,213.47	1/2	4,518.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,607.96	3/4	3,913.90	3/4	4,219.84	3/4	4,524.81	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,614.33	2	3,920.27	2	4,226.22	2	4,531.14	2		2		2		2		2		2	
1/4	3,620.71	1/4	3,926.65	1/4	4,232.59	1/4	4,537.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,627.08	1/2	3,933.02	1/2	4,238.96	1/2	4,543.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,633.45	3/4	3,939.40	3/4	4,245.34	3/4	4,550.16	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,639.83	3	3,945.77	3	4,251.71	3	4,556.49	3		3		3		3		3		3	
1/4	3,646.20	1/4	3,952.14	1/4	4,258.09	1/4	4,562.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,652.57	1/2	3,958.52	1/2	4,264.46	1/2	4,569.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,658.95	3/4	3,964.89	3/4	4,270.83	3/4	4,575.51	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,665.32	4	3,971.26	4	4,277.21	4	4,581.84	4		4		4		4		4		4	
1/4	3,671.70	1/4	3,977.64	1/4	4,283.58	1/4	4,588.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.07	1/2	3,984.01	1/2	4,289.95	1/2	4,594.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,684.44	3/4	3,990.39	3/4	4,296.33	3/4	4,600.86	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,690.82	5	3,996.76	5	4,302.70	5	4,607.19	5		5		5		5		5		5	
1/4	3,697.19	1/4	4,003.13	1/4	4,309.08	1/4	4,613.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,703.57	1/2	4,009.51	1/2	4,315.45	1/2	4,619.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.94	3/4	4,015.88	3/4	4,321.82	3/4	4,626.21	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,716.31	6	4,022.26	6	4,328.20	6	4,632.54	6		6		6		6		6		6	
1/4	3,722.69	1/4	4,028.63	1/4	4,334.57	1/4	4,638.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,729.06	1/2	4,035.00	1/2	4,340.95	1/2	4,645.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,735.43	3/4	4,041.38	3/4	4,347.32	3/4	4,651.56	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,741.81	7	4,047.75	7	4,353.69	7	4,657.89	7		7		7		7		7		7	
1/4	3,748.18	1/4	4,054.12	1/4	4,360.03	1/4	4,665.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,754.56	1/2	4,060.50	1/2	4,366.37	1/2	4,672.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,760.93	3/4	4,066.87	3/4	4,372.71	3/4	4,680.07	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,767.30	8	4,073.25	8	4,379.04	8	4,687.47	8		8		8		8		8		8	
1/4	3,773.68	1/4	4,079.62	1/4	4,385.38	1/4	4,694.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,780.05	1/2	4,085.99	1/2	4,391.72	1/2	4,701.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,786.42	3/4	4,092.37	3/4	4,398.06	3/4	4,708.49	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,792.80	9	4,098.74	9	4,404.39	9	4,715.50	9		9		9		9		9		9	
1/4	3,799.17	1/4	4,105.11	1/4	4,410.73	1/4	4,721.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,805.55	1/2	4,111.49	1/2	4,417.07	1/2	4,726.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,811.92	3/4	4,117.86	3/4	4,423.41	3/4	4,732.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,818.29	10	4,124.24	10	4,429.74	10		10		10		10		10		10		10	
1/4	3,824.67	1/4	4,130.61	1/4	4,436.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,831.04	1/2	4,136.98	1/2	4,442.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,837.41	3/4	4,143.36	3/4	4,448.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,843.79	11	4,149.73	11	4,455.09	11		11		11		11		11		11		11	
1/4	3,850.16	1/4	4,156.10	1/4	4,461.43	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,856.54	1/2	4,162.48	1/2	4,467.77	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,862.91	3/4	4,168.85	3/4	4,474.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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



# BARGE "EMS 384"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
1 STBD	00-1/4	- 00-1/4	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
2 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
2 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
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 - 00-5/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 236'-00"

April 22, 2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 384"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,258.08	0	3,928.10	0	3,596.65	0	3,265.19	0	2,933.74	0	2,602.26	0	2,270.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,251.21	1/4	3,921.20	1/4	3,589.74	1/4	3,258.29	1/4	2,926.83	1/4	2,595.35	1/4	2,263.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,244.35	1/2	3,914.29	1/2	3,582.84	1/2	3,251.38	1/2	2,919.93	1/2	2,588.45	1/2	2,256.95		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,237.48	3/4	3,907.39	3/4	3,575.93	3/4	3,244.48	3/4	2,913.02	3/4	2,581.54	3/4	2,250.04		
1		1		1		1	4,230.61	1	3,900.48	1	3,569.03	1	3,237.57	1	2,906.12	1	2,574.64	1	2,243.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,223.75	1/4	3,893.57	1/4	3,562.12	1/4	3,230.67	1/4	2,899.21	1/4	2,567.73	1/4	2,236.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,216.88	1/2	3,886.67	1/2	3,555.22	1/2	3,223.76	1/2	2,892.31	1/2	2,560.82	1/2	2,229.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,210.02	3/4	3,879.76	3/4	3,548.31	3/4	3,216.86	3/4	2,885.40	3/4	2,553.92	3/4	2,222.41		
2		2		2		2	4,203.15	2	3,872.86	2	3,541.40	2	3,209.95	2	2,878.50	2	2,547.01	2	2,215.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,196.29	1/4	3,865.95	1/4	3,534.50	1/4	3,203.05	1/4	2,871.59	1/4	2,540.10	1/4	2,208.60		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,189.42	1/2	3,859.05	1/2	3,527.59	1/2	3,196.14	1/2	2,864.69	1/2	2,533.20	1/2	2,201.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,182.56	3/4	3,852.14	3/4	3,520.69	3/4	3,189.23	3/4	2,857.78	3/4	2,526.29	3/4	2,194.79		
3		3		3		3	4,175.69	3	3,845.24	3	3,513.78	3	3,182.33	3	2,850.87	3	2,519.39	3	2,187.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,168.83	1/4	3,838.33	1/4	3,506.88	1/4	3,175.42	1/4	2,843.97	1/4	2,512.48	1/4	2,180.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,161.96	1/2	3,831.43	1/2	3,499.97	1/2	3,168.52	1/2	2,837.06	1/2	2,505.57	1/2	2,174.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,155.10	3/4	3,824.52	3/4	3,493.07	3/4	3,161.61	3/4	2,830.16	3/4	2,498.67	3/4	2,167.16		
4		4		4		4	4,148.23	4	3,817.62	4	3,486.16	4	3,154.71	4	2,823.25	4	2,491.76	4	2,160.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,141.37	1/4	3,810.71	1/4	3,479.26	1/4	3,147.80	1/4	2,816.35	1/4	2,484.85	1/4	2,153.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,134.50	1/2	3,803.81	1/2	3,472.35	1/2	3,140.90	1/2	2,809.44	1/2	2,477.95	1/2	2,146.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,127.64	3/4	3,796.90	3/4	3,465.45	3/4	3,133.99	3/4	2,802.54	3/4	2,471.04	3/4	2,139.54		
5		5		5		5	4,120.77	5	3,790.00	5	3,458.54	5	3,127.09	5	2,795.63	5	2,464.13	5	2,132.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,113.90	1/4	3,783.09	1/4	3,451.64	1/4	3,120.18	1/4	2,788.73	1/4	2,457.23	1/4	2,125.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,107.04	1/2	3,776.18	1/2	3,444.73	1/2	3,113.28	1/2	2,781.82	1/2	2,450.32	1/2	2,118.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,100.17	3/4	3,769.28	3/4	3,437.83	3/4	3,106.37	3/4	2,774.92	3/4	2,443.42	3/4	2,111.91		
6		6		6		6	4,093.31	6	3,762.37	6	3,430.92	6	3,099.47	6	2,768.01	6	2,436.51	6	2,105.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,086.44	1/4	3,755.47	1/4	3,424.01	1/4	3,092.56	1/4	2,761.11	1/4	2,429.60	1/4	2,098.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,402.19	1/2	4,079.58	1/2	3,748.56	1/2	3,417.11	1/2	3,085.65	1/2	2,754.20	1/2	2,422.70	1/2	2,091.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,396.96	3/4	4,072.71	3/4	3,741.66	3/4	3,410.20	3/4	3,078.75	3/4	2,747.29	3/4	2,415.79	3/4	2,084.29
7		7		7		7	4,391.74	7	4,065.85	7	3,734.75	7	3,403.30	7	3,071.84	7	2,740.39	7	2,408.88	7	2,077.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,386.52	1/4	4,058.98	1/4	3,727.85	1/4	3,396.39	1/4	3,064.94	1/4	2,733.48	1/4	2,401.98	1/4	2,070.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,380.08	1/2	4,052.12	1/2	3,720.94	1/2	3,389.49	1/2	3,058.03	1/2	2,726.57	1/2	2,395.07	1/2	2,063.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,373.64	3/4	4,045.25	3/4	3,714.04	3/4	3,382.58	3/4	3,051.13	3/4	2,719.67	3/4	2,388.17	3/4	2,056.66
8		8		8		8	4,367.20	8	4,038.39	8	3,707.13	8	3,375.68	8	3,044.22	8	2,712.76	8	2,381.26	8	2,049.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,360.76	1/4	4,031.52	1/4	3,700.23	1/4	3,368.77	1/4	3,037.32	1/4	2,705.86	1/4	2,374.35	1/4	2,042.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,353.97	1/2	4,024.66	1/2	3,693.32	1/2	3,361.87	1/2	3,030.41	1/2	2,698.95	1/2	2,367.45	1/2	2,035.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,347.18	3/4	4,017.79	3/4	3,686.42	3/4	3,354.96	3/4	3,023.51	3/4	2,692.04	3/4	2,360.54	3/4	2,029.04
9		9		9		9	4,340.39	9	4,010.93	9	3,679.51	9	3,348.06	9	3,016.60	9	2,685.14	9	2,353.63	9	2,022.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,333.59	1/4	4,004.06	1/4	3,672.61	1/4	3,341.15	1/4	3,009.70	1/4	2,678.23	1/4	2,346.73	1/4	2,015.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,326.73	1/2	3,997.15	1/2	3,665.70	1/2	3,334.25	1/2	3,002.79	1/2	2,671.32	1/2	2,339.82	1/2	2,008.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,319.86	3/4	3,990.25	3/4	3,658.79	3/4	3,327.34	3/4	2,995.89	3/4	2,664.42	3/4	2,332.92	3/4	2,001.41
10		10		10		10	4,313.00	10	3,983.34	10	3,651.89	10	3,320.44	10	2,988.98	10	2,657.51	10	2,326.01	10	1,994.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,306.13	1/4	3,976.44	1/4	3,644.98	1/4	3,313.53	1/4	2,982.08	1/4	2,650.61	1/4	2,319.10	1/4	1,987.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,299.27	1/2	3,969.53	1/2	3,638.08	1/2	3,306.62	1/2	2,975.17	1/2	2,643.70	1/2	2,312.20	1/2	1,980.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,292.40	3/4	3,962.63	3/4	3,631.17	3/4	3,299.72	3/4	2,968.26	3/4	2,636.79	3/4	2,305.29	3/4	1,973.79
11		11		11		11	4,285.54	11	3,955.72	11	3,624.27	11	3,292.81	11	2,961.36	11	2,629.89	11	2,298.38	11	1,966.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,278.67	1/4	3,948.82	1/4	3,617.36	1/4	3,285.91	1/4	2,954.45	1/4	2,622.98	1/4	2,291.48	1/4	1,959.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,271.81	1/2	3,941.91	1/2	3,610.46	1/2	3,279.00	1/2	2,947.55	1/2	2,616.07	1/2	2,284.57	1/2	1,953.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,264.94	3/4	3,935.01	3/4	3,603.55	3/4	3,272.10	3/4	2,940.64	3/4	2,609.17	3/4	2,277.66	3/4	1,946.16

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-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 384"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,939.26	0	1,607.75	0	1,276.25	0	948.98	0	642.01	0	353.19	0	84.26	0		0		0	
1/4	1,932.35	1/4	1,600.85	1/4	1,269.34	1/4	942.36	1/4	635.78	1/4	347.37	1/4	78.85	1/4	1/4	1/4		1/4	
1/2	1,925.44	1/2	1,593.94	1/2	1,262.44	1/2	935.77	1/2	629.58	1/2	341.59	1/2	73.48	1/2	1/2	1/2		1/2	
3/4	1,918.54	3/4	1,587.03	3/4	1,255.53	3/4	929.19	3/4	623.38	3/4	335.81	3/4	68.11	3/4	3/4	3/4		3/4	
1	1,911.63	1	1,580.13	1	1,248.63	1	922.60	1	617.18	1	330.02	1	62.75	1	1	1		1	
1/4	1,904.72	1/4	1,573.22	1/4	1,241.72	1/4	916.01	1/4	610.98	1/4	324.24	1/4	57.38	1/4	1/4	1/4		1/4	
1/2	1,897.82	1/2	1,566.32	1/2	1,234.81	1/2	909.47	1/2	604.82	1/2	318.49	1/2	52.04	1/2	1/2	1/2		1/2	
3/4	1,890.91	3/4	1,559.41	3/4	1,227.91	3/4	902.94	3/4	598.66	3/4	312.74	3/4	46.70	3/4	3/4	3/4		3/4	
2	1,884.01	2	1,552.50	2	1,221.00	2	896.40	2	592.49	2	306.99	2	41.37	2	2	2		2	
1/4	1,877.10	1/4	1,545.60	1/4	1,214.09	1/4	889.86	1/4	586.33	1/4	301.24	1/4	36.03	1/4	1/4	1/4		1/4	
1/2	1,870.19	1/2	1,538.69	1/2	1,207.19	1/2	883.36	1/2	580.20	1/2	295.52	1/2	30.98	1/2	1/2	1/2		1/2	
3/4	1,863.29	3/4	1,531.78	3/4	1,200.28	3/4	876.86	3/4	574.07	3/4	289.81	3/4	25.93	3/4	3/4	3/4		3/4	
3	1,856.38	3	1,524.88	3	1,193.38	3	870.36	3	567.94	3	284.09	3	20.87	3	3	3		3	
1/4	1,849.47	1/4	1,517.97	1/4	1,186.47	1/4	863.86	1/4	561.81	1/4	278.38	1/4	15.82	1/4	1/4	1/4		1/4	
1/2	1,842.57	1/2	1,511.07	1/2	1,179.56	1/2	857.39	1/2	555.72	1/2	272.70	1/2	12.53	1/2	1/2	1/2		1/2	
3/4	1,835.66	3/4	1,504.16	3/4	1,172.66	3/4	850.92	3/4	549.62	3/4	267.02	3/4	9.23	3/4	3/4	3/4		3/4	
4	1,828.76	4	1,497.25	4	1,165.75	4	844.46	4	543.53	4	261.34	4	5.94	4	4	4		4	
1/4	1,821.85	1/4	1,490.35	1/4	1,158.84	1/4	837.99	1/4	537.43	1/4	255.66	1/4	2.65	1/4	1/4	1/4		1/4	
1/2	1,814.94	1/2	1,483.44	1/2	1,151.96	1/2	831.56	1/2	531.37	1/2	250.01	1/2		1/2	1/2	1/2		1/2	
3/4	1,808.04	3/4	1,476.53	3/4	1,145.07	3/4	825.13	3/4	525.31	3/4	244.37	3/4		3/4	3/4	3/4		3/4	
5	1,801.13	5	1,469.63	5	1,138.18	5	818.71	5	519.25	5	238.72	5		5	5	5		5	
1/4	1,794.22	1/4	1,462.72	1/4	1,131.29	1/4	812.28	1/4	513.19	1/4	233.07	1/4		1/4	1/4	1/4		1/4	
1/2	1,787.32	1/2	1,455.82	1/2	1,124.43	1/2	805.88	1/2	507.17	1/2	227.46	1/2		1/2	1/2	1/2		1/2	
3/4	1,780.41	3/4	1,448.91	3/4	1,117.58	3/4	799.49	3/4	501.14	3/4	221.85	3/4		3/4	3/4	3/4		3/4	
6	1,773.50	6	1,442.00	6	1,110.72	6	793.10	6	495.12	6	216.24	6		6	6	6		6	
1/4	1,766.60	1/4	1,435.10	1/4	1,103.87	1/4	786.70	1/4	489.09	1/4	210.63	1/4		1/4	1/4	1/4		1/4	
1/2	1,759.69	1/2	1,428.19	1/2	1,097.05	1/2	780.34	1/2	483.10	1/2	205.05	1/2		1/2	1/2	1/2		1/2	
3/4	1,752.79	3/4	1,421.28	3/4	1,090.23	3/4	773.98	3/4	477.11	3/4	199.47	3/4		3/4	3/4	3/4		3/4	
7	1,745.88	7	1,414.38	7	1,083.41	7	767.61	7	471.12	7	193.90	7		7	7	7		7	
1/4	1,738.97	1/4	1,407.47	1/4	1,076.59	1/4	761.25	1/4	465.12	1/4	188.32	1/4		1/4	1/4	1/4		1/4	
1/2	1,732.07	1/2	1,400.56	1/2	1,069.81	1/2	754.92	1/2	459.17	1/2	182.78	1/2		1/2	1/2	1/2		1/2	
3/4	1,725.16	3/4	1,393.66	3/4	1,063.02	3/4	748.59	3/4	453.21	3/4	177.24	3/4		3/4	3/4	3/4		3/4	
8	1,718.25	8	1,386.75	8	1,056.23	8	742.26	8	447.26	8	171.69	8		8	8	8		8	
1/4	1,711.35	1/4	1,379.85	1/4	1,049.45	1/4	735.93	1/4	441.30	1/4	166.15	1/4		1/4	1/4	1/4		1/4	
1/2	1,704.44	1/2	1,372.94	1/2	1,042.70	1/2	729.64	1/2	435.38	1/2	160.64	1/2		1/2	1/2	1/2		1/2	
3/4	1,697.54	3/4	1,366.03	3/4	1,035.95	3/4	723.34	3/4	429.45	3/4	155.14	3/4		3/4	3/4	3/4		3/4	
9	1,690.63	9	1,359.13	9	1,029.20	9	717.05	9	423.53	9	149.63	9		9	9	9		9	
1/4	1,683.72	1/4	1,352.22	1/4	1,022.45	1/4	710.75	1/4	417.61	1/4	144.12	1/4		1/4	1/4	1/4		1/4	
1/2	1,676.82	1/2	1,345.31	1/2	1,015.73	1/2	704.48	1/2	411.72	1/2	138.65	1/2		1/2	1/2	1/2		1/2	
3/4	1,669.91	3/4	1,338.41	3/4	1,009.01	3/4	698.21	3/4	405.83	3/4	133.17	3/4		3/4	3/4	3/4		3/4	
10	1,663.00	10	1,331.50	10	1,002.30	10	691.94	10	399.95	10	127.70	10		10	10	10		10	
1/4	1,656.10	1/4	1,324.60	1/4	995.58	1/4	685.66	1/4	394.06	1/4	122.23	1/4		1/4	1/4	1/4		1/4	
1/2	1,649.19	1/2	1,317.69	1/2	988.90	1/2	679.42	1/2	388.21	1/2	116.79	1/2		1/2	1/2	1/2		1/2	
3/4	1,642.29	3/4	1,310.78	3/4	982.22	3/4	673.19	3/4	382.35	3/4	111.35	3/4		3/4	3/4	3/4		3/4	
11	1,635.38	11	1,303.88	11	975.53	11	666.95	11	376.50	11	105.91	11		11	11	11		11	
1/4	1,628.47	1/4	1,296.97	1/4	968.85	1/4	660.71	1/4	370.65	1/4	100.47	1/4		1/4	1/4	1/4		1/4	
1/2	1,621.57	1/2	1,290.06	1/2	962.23	1/2	654.48	1/2	364.83	1/2	95.07	1/2		1/2	1/2	1/2		1/2	
3/4	1,614.66	3/4	1,283.16	3/4	955.61	3/4	648.24	3/4	359.01	3/4	89.66	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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



# BARGE "EMS 384"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,239.52	0	3,929.53	0	3,598.08	0	3,266.63	0	2,935.18	0	2,603.70	0	2,272.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,252.65	1/4	3,922.62	1/4	3,591.17	1/4	3,259.72	1/4	2,928.27	1/4	2,596.80	1/4	2,265.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,245.78	1/2	3,915.72	1/2	3,584.27	1/2	3,252.82	1/2	2,921.37	1/2	2,589.89	1/2	2,258.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,238.92	3/4	3,908.81	3/4	3,577.36	3/4	3,245.91	3/4	2,914.46	3/4	2,582.99	3/4	2,251.48		
1		1		1		1	4,232.05	1	3,901.91	1	3,570.46	1	3,239.01	1	2,907.56	1	2,576.08	1	2,244.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,225.19	1/4	3,895.00	1/4	3,563.55	1/4	3,232.10	1/4	2,900.65	1/4	2,569.17	1/4	2,237.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,218.32	1/2	3,888.10	1/2	3,556.65	1/2	3,225.20	1/2	2,893.75	1/2	2,562.27	1/2	2,230.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,211.46	3/4	3,881.19	3/4	3,549.74	3/4	3,218.29	3/4	2,886.84	3/4	2,555.36	3/4	2,223.86		
2		2		2		2	4,204.59	2	3,874.29	2	3,542.84	2	3,211.39	2	2,879.94	2	2,548.45	2	2,216.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,197.72	1/4	3,867.38	1/4	3,535.93	1/4	3,204.48	1/4	2,873.03	1/4	2,541.55	1/4	2,210.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,190.86	1/2	3,860.48	1/2	3,529.03	1/2	3,197.58	1/2	2,866.13	1/2	2,534.64	1/2	2,203.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,183.99	3/4	3,853.57	3/4	3,522.12	3/4	3,190.67	3/4	2,859.22	3/4	2,527.73	3/4	2,196.23		
3		3		3		3	4,177.13	3	3,846.67	3	3,515.22	3	3,183.77	3	2,852.32	3	2,520.83	3	2,189.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,170.26	1/4	3,839.76	1/4	3,508.31	1/4	3,176.86	1/4	2,845.41	1/4	2,513.92	1/4	2,182.42		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,163.40	1/2	3,832.85	1/2	3,501.41	1/2	3,169.96	1/2	2,838.51	1/2	2,507.02	1/2	2,175.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,156.53	3/4	3,825.95	3/4	3,494.50	3/4	3,163.05	3/4	2,831.60	3/4	2,500.11	3/4	2,168.61		
4		4		4		4	4,149.66	4	3,819.04	4	3,487.59	4	3,156.15	4	2,824.70	4	2,493.20	4	2,161.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,142.80	1/4	3,812.14	1/4	3,480.69	1/4	3,149.24	1/4	2,817.79	1/4	2,486.30	1/4	2,154.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,135.93	1/2	3,805.23	1/2	3,473.78	1/2	3,142.33	1/2	2,810.89	1/2	2,479.39	1/2	2,147.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,129.07	3/4	3,798.33	3/4	3,466.88	3/4	3,135.43	3/4	2,803.98	3/4	2,472.48	3/4	2,140.98		
5		5		5		5	4,122.20	5	3,791.42	5	3,459.97	5	3,128.52	5	2,797.07	5	2,465.58	5	2,134.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,115.34	1/4	3,784.52	1/4	3,453.07	1/4	3,121.62	1/4	2,790.17	1/4	2,458.67	1/4	2,127.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,108.47	1/2	3,777.61	1/2	3,446.16	1/2	3,114.71	1/2	2,783.26	1/2	2,451.77	1/2	2,120.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,101.60	3/4	3,770.71	3/4	3,439.26	3/4	3,107.81	3/4	2,776.36	3/4	2,444.86	3/4	2,113.36		
6		6		6		6	4,094.74	6	3,763.80	6	3,432.35	6	3,100.90	6	2,769.45	6	2,437.95	6	2,106.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,087.87	1/4	3,756.90	1/4	3,425.45	1/4	3,094.00	1/4	2,762.55	1/4	2,431.05	1/4	2,099.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,403.63	1/2	4,081.01	1/2	3,749.99	1/2	3,418.54	1/2	3,087.09	1/2	2,755.64	1/2	2,424.14	1/2	2,092.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,398.41	3/4	4,074.14	3/4	3,743.09	3/4	3,411.64	3/4	3,080.19	3/4	2,748.74	3/4	2,417.23	3/4	2,085.73
7		7		7		7	4,393.19	7	4,067.28	7	3,736.18	7	3,404.73	7	3,073.28	7	2,741.83	7	2,410.33	7	2,078.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,387.97	1/4	4,060.41	1/4	3,729.28	1/4	3,397.83	1/4	3,066.38	1/4	2,734.92	1/4	2,403.42	1/4	2,071.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,381.53	1/2	4,053.54	1/2	3,722.37	1/2	3,390.92	1/2	3,059.47	1/2	2,728.02	1/2	2,396.52	1/2	2,065.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,375.08	3/4	4,046.68	3/4	3,715.47	3/4	3,384.02	3/4	3,052.57	3/4	2,721.11	3/4	2,389.61	3/4	2,058.11
8		8		8		8	4,368.64	8	4,039.81	8	3,708.56	8	3,377.11	8	3,045.66	8	2,714.20	8	2,382.70	8	2,051.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,362.20	1/4	4,032.95	1/4	3,701.66	1/4	3,370.21	1/4	3,038.76	1/4	2,707.30	1/4	2,375.80	1/4	2,044.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,355.41	1/2	4,026.08	1/2	3,694.75	1/2	3,363.30	1/2	3,031.85	1/2	2,700.39	1/2	2,368.89	1/2	2,037.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,348.62	3/4	4,019.22	3/4	3,687.85	3/4	3,356.40	3/4	3,024.95	3/4	2,693.49	3/4	2,361.98	3/4	2,030.48
9		9		9		9	4,341.83	9	4,012.35	9	3,680.94	9	3,349.49	9	3,018.04	9	2,686.58	9	2,355.08	9	2,023.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,335.04	1/4	4,005.48	1/4	3,674.04	1/4	3,342.59	1/4	3,011.14	1/4	2,679.67	1/4	2,348.17	1/4	2,016.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,328.17	1/2	3,998.58	1/2	3,667.13	1/2	3,335.68	1/2	3,004.23	1/2	2,672.77	1/2	2,341.26	1/2	2,009.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,321.31	3/4	3,991.67	3/4	3,660.22	3/4	3,328.78	3/4	2,997.33	3/4	2,665.86	3/4	2,334.36	3/4	2,002.86
10		10		10		10	4,314.44	10	3,984.77	10	3,653.32	10	3,321.87	10	2,990.42	10	2,658.95	10	2,327.45	10	1,995.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,307.58	1/4	3,977.86	1/4	3,646.41	1/4	3,314.96	1/4	2,983.52	1/4	2,652.05	1/4	2,320.55	1/4	1,989.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,300.71	1/2	3,970.96	1/2	3,639.51	1/2	3,308.06	1/2	2,976.61	1/2	2,645.14	1/2	2,313.64	1/2	1,982.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,293.84	3/4	3,964.05	3/4	3,632.60	3/4	3,301.15	3/4	2,969.70	3/4	2,638.24	3/4	2,306.73	3/4	1,975.23
11		11		11		11	4,286.98	11	3,957.15	11	3,625.70	11	3,294.25	11	2,962.80	11	2,631.33	11	2,299.83	11	1,968.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,280.11	1/4	3,950.24	1/4	3,618.79	1/4	3,287.34	1/4	2,955.89	1/4	2,624.42	1/4	2,292.92	1/4	1,961.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,273.25	1/2	3,943.34	1/2	3,611.89	1/2	3,280.44	1/2	2,948.99	1/2	2,617.52	1/2	2,286.01	1/2	1,954.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,266.38	3/4	3,936.43	3/4	3,604.98	3/4	3,273.53	3/4	2,942.08	3/4	2,610.61	3/4	2,279.11	3/4	1,947.61

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-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 384"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,940.70	0	1,609.20	0	1,277.69	0	950.35	0	642.09	0	353.25	0	84.28	0		0		0	
1/4	1,933.79	1/4	1,602.29	1/4	1,270.79	1/4	943.70	1/4	635.85	1/4	347.43	1/4	78.87	1/4	1/4	1/4		1/4	
1/2	1,926.89	1/2	1,595.38	1/2	1,263.88	1/2	937.09	1/2	629.66	1/2	341.64	1/2	73.50	1/2	1/2	1/2		1/2	
3/4	1,919.98	3/4	1,588.48	3/4	1,256.98	3/4	930.48	3/4	623.46	3/4	335.86	3/4	68.13	3/4	3/4	3/4		3/4	
1	1,913.07	1	1,581.57	1	1,250.07	1	923.86	1	617.26	1	330.07	1	62.76	1	1	1		1	
1/4	1,906.17	1/4	1,574.67	1/4	1,243.16	1/4	917.25	1/4	611.06	1/4	324.29	1/4	57.39	1/4	1/4	1/4		1/4	
1/2	1,899.26	1/2	1,567.76	1/2	1,236.26	1/2	910.69	1/2	604.89	1/2	318.54	1/2	52.06	1/2	1/2	1/2		1/2	
3/4	1,892.36	3/4	1,560.85	3/4	1,229.35	3/4	904.12	3/4	598.73	3/4	312.79	3/4	46.72	3/4	3/4	3/4		3/4	
2	1,885.45	2	1,553.95	2	1,222.44	2	897.56	2	592.57	2	307.04	2	41.38	2	2	2		2	
1/4	1,878.54	1/4	1,547.04	1/4	1,215.54	1/4	890.99	1/4	586.40	1/4	301.29	1/4	36.05	1/4	1/4	1/4		1/4	
1/2	1,871.64	1/2	1,540.13	1/2	1,208.63	1/2	884.46	1/2	580.27	1/2	295.57	1/2	30.99	1/2	1/2	1/2		1/2	
3/4	1,864.73	3/4	1,533.23	3/4	1,201.73	3/4	877.93	3/4	574.14	3/4	289.86	3/4	25.94	3/4	3/4	3/4		3/4	
3	1,857.82	3	1,526.32	3	1,194.82	3	871.40	3	568.01	3	284.14	3	20.88	3	3	3		3	
1/4	1,850.92	1/4	1,519.41	1/4	1,187.91	1/4	864.87	1/4	561.88	1/4	278.42	1/4	15.83	1/4	1/4	1/4		1/4	
1/2	1,844.01	1/2	1,512.51	1/2	1,181.01	1/2	858.37	1/2	555.79	1/2	272.74	1/2	12.54	1/2	1/2	1/2		1/2	
3/4	1,837.10	3/4	1,505.60	3/4	1,174.10	3/4	851.88	3/4	549.69	3/4	267.06	3/4	9.24	3/4	3/4	3/4		3/4	
4	1,830.20	4	1,498.70	4	1,167.19	4	845.38	4	543.60	4	261.38	4	5.95	4	4	4		4	
1/4	1,823.29	1/4	1,491.79	1/4	1,160.29	1/4	838.88	1/4	537.50	1/4	255.70	1/4	2.66	1/4	1/4	1/4		1/4	
1/2	1,816.39	1/2	1,484.88	1/2	1,153.40	1/2	832.43	1/2	531.44	1/2	250.05	1/2		1/2	1/2	1/2		1/2	
3/4	1,809.48	3/4	1,477.98	3/4	1,146.51	3/4	825.97	3/4	525.38	3/4	244.41	3/4		3/4	3/4	3/4		3/4	
5	1,802.57	5	1,471.07	5	1,139.62	5	819.51	5	519.32	5	238.76	5		5	5	5		5	
1/4	1,795.67	1/4	1,464.16	1/4	1,132.73	1/4	813.05	1/4	513.26	1/4	233.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,788.76	1/2	1,457.26	1/2	1,125.88	1/2	806.63	1/2	507.23	1/2	227.50	1/2		1/2	1/2	1/2		1/2	
3/4	1,781.85	3/4	1,450.35	3/4	1,119.02	3/4	800.21	3/4	501.21	3/4	221.89	3/4		3/4	3/4	3/4		3/4	
6	1,774.95	6	1,443.45	6	1,112.17	6	793.79	6	495.18	6	216.28	6		6	6	6		6	
1/4	1,768.04	1/4	1,436.54	1/4	1,105.31	1/4	787.36	1/4	489.16	1/4	210.67	1/4		1/4	1/4	1/4		1/4	
1/2	1,761.14	1/2	1,429.63	1/2	1,098.49	1/2	780.97	1/2	483.16	1/2	205.09	1/2		1/2	1/2	1/2		1/2	
3/4	1,754.23	3/4	1,422.73	3/4	1,091.67	3/4	774.58	3/4	477.17	3/4	199.51	3/4		3/4	3/4	3/4		3/4	
7	1,747.32	7	1,415.82	7	1,084.85	7	768.19	7	471.18	7	193.93	7		7	7	7		7	
1/4	1,740.42	1/4	1,408.91	1/4	1,078.03	1/4	761.79	1/4	465.19	1/4	188.36	1/4		1/4	1/4	1/4		1/4	
1/2	1,733.51	1/2	1,402.01	1/2	1,071.25	1/2	755.44	1/2	459.23	1/2	182.81	1/2		1/2	1/2	1/2		1/2	
3/4	1,726.60	3/4	1,395.10	3/4	1,064.46	3/4	749.08	3/4	453.27	3/4	177.27	3/4		3/4	3/4	3/4		3/4	
8	1,719.70	8	1,388.20	8	1,057.68	8	742.72	8	447.32	8	171.73	8		8	8	8		8	
1/4	1,712.79	1/4	1,381.29	1/4	1,050.89	1/4	736.36	1/4	441.36	1/4	166.18	1/4		1/4	1/4	1/4		1/4	
1/2	1,705.89	1/2	1,374.38	1/2	1,044.14	1/2	730.04	1/2	435.44	1/2	160.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,698.98	3/4	1,367.48	3/4	1,037.39	3/4	723.71	3/4	429.52	3/4	155.17	3/4		3/4	3/4	3/4		3/4	
9	1,692.07	9	1,360.57	9	1,030.64	9	717.39	9	423.59	9	149.66	9		9	9	9		9	
1/4	1,685.17	1/4	1,353.66	1/4	1,023.89	1/4	711.07	1/4	417.67	1/4	144.15	1/4		1/4	1/4	1/4		1/4	
1/2	1,678.26	1/2	1,346.76	1/2	1,017.17	1/2	704.76	1/2	411.78	1/2	138.68	1/2		1/2	1/2	1/2		1/2	
3/4	1,671.35	3/4	1,339.85	3/4	1,010.45	3/4	698.46	3/4	405.89	3/4	133.20	3/4		3/4	3/4	3/4		3/4	
10	1,664.45	10	1,332.94	10	1,003.74	10	692.16	10	400.01	10	127.73	10		10	10	10		10	
1/4	1,657.54	1/4	1,326.04	1/4	997.02	1/4	685.86	1/4	394.12	1/4	122.25	1/4		1/4	1/4	1/4		1/4	
1/2	1,650.63	1/2	1,319.13	1/2	990.34	1/2	679.59	1/2	388.26	1/2	116.81	1/2		1/2	1/2	1/2		1/2	
3/4	1,643.73	3/4	1,312.23	3/4	983.66	3/4	673.32	3/4	382.41	3/4	111.37	3/4		3/4	3/4	3/4		3/4	
11	1,636.82	11	1,305.32	11	976.98	11	667.05	11	376.56	11	105.93	11		11	11	11		11	
1/4	1,629.92	1/4	1,298.41	1/4	970.29	1/4	660.79	1/4	370.70	1/4	100.49	1/4		1/4	1/4	1/4		1/4	
1/2	1,623.01	1/2	1,291.51	1/2	963.65	1/2	654.55	1/2	364.88	1/2	95.09	1/2		1/2	1/2	1/2		1/2	
3/4	1,616.10	3/4	1,284.60	3/4	957.00	3/4	648.32	3/4	359.06	3/4	89.68	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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 384"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,176.81	0	4,790.28	0	4,402.02	0	4,013.76	0	3,625.50	0	3,237.21	0	2,848.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,168.76	1/4	4,782.19	1/4	4,393.93	1/4	4,005.67	1/4	3,617.41	1/4	3,229.12	1/4	2,840.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,160.72	1/2	4,774.10	1/2	4,385.84	1/2	3,997.58	1/2	3,609.32	1/2	3,221.03	1/2	2,832.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,152.68	3/4	4,766.02	3/4	4,377.75	3/4	3,989.49	3/4	3,601.23	3/4	3,212.94	3/4	2,824.62		
1		1		1		1	5,144.64	1	4,757.93	1	4,369.66	1	3,981.40	1	3,593.14	1	3,204.85	1	2,816.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,136.60	1/4	4,749.84	1/4	4,361.58	1/4	3,973.31	1/4	3,585.05	1/4	3,196.76	1/4	2,808.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,128.55	1/2	4,741.75	1/2	4,353.49	1/2	3,965.22	1/2	3,576.96	1/2	3,188.67	1/2	2,800.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,120.51	3/4	4,733.66	3/4	4,345.40	3/4	3,957.14	3/4	3,568.87	3/4	3,180.58	3/4	2,792.26		
2		2		2		2	5,112.47	2	4,725.57	2	4,337.31	2	3,949.05	2	3,560.78	2	3,172.49	2	2,784.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,104.43	1/4	4,717.48	1/4	4,329.22	1/4	3,940.96	1/4	3,552.70	1/4	3,164.40	1/4	2,776.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,096.39	1/2	4,709.39	1/2	4,321.13	1/2	3,932.87	1/2	3,544.61	1/2	3,156.31	1/2	2,767.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,088.35	3/4	4,701.31	3/4	4,313.04	3/4	3,924.78	3/4	3,536.52	3/4	3,148.22	3/4	2,759.90		
3		3		3		3	5,080.30	3	4,693.22	3	4,304.95	3	3,916.69	3	3,528.43	3	3,140.13	3	2,751.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,072.26	1/4	4,685.13	1/4	4,296.87	1/4	3,908.60	1/4	3,520.34	1/4	3,132.04	1/4	2,743.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,064.22	1/2	4,677.04	1/2	4,288.78	1/2	3,900.51	1/2	3,512.25	1/2	3,123.95	1/2	2,735.63		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,056.18	3/4	4,668.95	3/4	4,280.69	3/4	3,892.43	3/4	3,504.16	3/4	3,115.86	3/4	2,727.54		
4		4		4		4	5,048.14	4	4,660.86	4	4,272.60	4	3,884.34	4	3,496.07	4	3,107.77	4	2,719.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,040.10	1/4	4,652.77	1/4	4,264.51	1/4	3,876.25	1/4	3,487.99	1/4	3,099.68	1/4	2,711.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,032.05	1/2	4,644.68	1/2	4,256.42	1/2	3,868.16	1/2	3,479.90	1/2	3,091.59	1/2	2,703.27		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,024.01	3/4	4,636.60	3/4	4,248.33	3/4	3,860.07	3/4	3,471.81	3/4	3,083.50	3/4	2,695.18		
5		5		5		5	5,015.97	5	4,628.51	5	4,240.24	5	3,851.98	5	3,463.72	5	3,075.41	5	2,687.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,007.93	1/4	4,620.42	1/4	4,232.16	1/4	3,843.89	1/4	3,455.63	1/4	3,067.32	1/4	2,679.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.89	1/2	4,612.33	1/2	4,224.07	1/2	3,835.80	1/2	3,447.54	1/2	3,059.23	1/2	2,670.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.84	3/4	4,604.24	3/4	4,215.98	3/4	3,827.72	3/4	3,439.45	3/4	3,051.14	3/4	2,662.82		
6		6		6		6	4,983.80	6	4,596.15	6	4,207.89	6	3,819.63	6	3,431.36	6	3,043.05	6	2,654.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,975.76	1/4	4,588.06	1/4	4,199.80	1/4	3,811.54	1/4	3,423.28	1/4	3,034.96	1/4	2,646.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,345.61	1/2	4,967.72	1/2	4,579.97	1/2	4,191.71	1/2	3,803.45	1/2	3,415.19	1/2	3,026.87	1/2	2,638.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,339.49	3/4	4,959.68	3/4	4,571.88	3/4	4,183.62	3/4	3,795.36	3/4	3,407.10	3/4	3,018.78	3/4	2,630.46
7		7		7		7	5,333.37	7	4,951.64	7	4,563.80	7	4,175.53	7	3,787.27	7	3,399.01	7	3,010.69	7	2,622.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,327.26	1/4	4,943.59	1/4	4,555.71	1/4	4,167.44	1/4	3,779.18	1/4	3,390.92	1/4	3,002.60	1/4	2,614.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,319.71	1/2	4,935.55	1/2	4,547.62	1/2	4,159.36	1/2	3,771.09	1/2	3,382.83	1/2	2,994.51	1/2	2,606.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,312.17	3/4	4,927.51	3/4	4,539.53	3/4	4,151.27	3/4	3,763.00	3/4	3,374.74	3/4	2,986.42	3/4	2,598.11
8		8		8		8	5,304.63	8	4,919.47	8	4,531.44	8	4,143.18	8	3,754.92	8	3,366.65	8	2,978.33	8	2,590.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,297.09	1/4	4,911.43	1/4	4,523.35	1/4	4,135.09	1/4	3,746.83	1/4	3,358.56	1/4	2,970.24	1/4	2,581.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,289.13	1/2	4,903.38	1/2	4,515.26	1/2	4,127.00	1/2	3,738.74	1/2	3,350.47	1/2	2,962.15	1/2	2,573.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,281.18	3/4	4,895.34	3/4	4,507.17	3/4	4,118.91	3/4	3,730.65	3/4	3,342.38	3/4	2,954.06	3/4	2,565.75
9		9		9		9	5,273.22	9	4,887.30	9	4,499.09	9	4,110.82	9	3,722.56	9	3,334.29	9	2,945.97	9	2,557.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,265.27	1/4	4,879.26	1/4	4,491.00	1/4	4,102.73	1/4	3,714.47	1/4	3,326.20	1/4	2,937.88	1/4	2,549.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,257.22	1/2	4,871.17	1/2	4,482.91	1/2	4,094.65	1/2	3,706.38	1/2	3,318.11	1/2	2,929.79	1/2	2,541.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,249.18	3/4	4,863.08	3/4	4,474.82	3/4	4,086.56	3/4	3,698.29	3/4	3,310.02	3/4	2,921.70	3/4	2,533.39
10		10		10		10	5,241.14	10	4,854.99	10	4,466.73	10	4,078.47	10	3,690.21	10	3,301.93	10	2,913.61	10	2,525.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,233.10	1/4	4,846.90	1/4	4,458.64	1/4	4,070.38	1/4	3,682.12	1/4	3,293.84	1/4	2,905.52	1/4	2,517.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,225.06	1/2	4,838.82	1/2	4,450.55	1/2	4,062.29	1/2	3,674.03	1/2	3,285.75	1/2	2,897.43	1/2	2,509.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,217.01	3/4	4,830.73	3/4	4,442.46	3/4	4,054.20	3/4	3,665.94	3/4	3,277.66	3/4	2,889.34	3/4	2,501.03
11		11		11		11	5,208.97	11	4,822.64	11	4,434.38	11	4,046.11	11	3,657.85	11	3,269.57	11	2,881.25	11	2,492.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,200.93	1/4	4,814.55	1/4	4,426.29	1/4	4,038.02	1/4	3,649.76	1/4	3,261.48	1/4	2,873.16	1/4	2,484.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,192.89	1/2	4,806.46	1/2	4,418.20	1/2	4,029.94	1/2	3,641.67	1/2	3,253.39	1/2	2,865.07	1/2	2,476.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,184.85	3/4	4,798.37	3/4	4,410.11	3/4	4,021.85	3/4	3,633.58	3/4	3,245.30	3/4	2,856.98	3/4	2,468.67

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "EMS 384"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	2,460.58	0	2,072.26	0	1,683.95	0	1,295.63	0	907.32	0	533.96	0	145.98	0		0		0	
1/4	2,452.49	1/4	2,064.17	1/4	1,675.86	1/4	1,287.54	1/4	899.23	1/4	526.18	1/4	137.89	1/4	1/4	1/4		1/4	1/4
1/2	2,444.40	1/2	2,056.08	1/2	1,667.77	1/2	1,279.45	1/2	891.44	1/2	518.09	1/2	129.80	1/2	1/2	1/2		1/2	1/2
3/4	2,436.31	3/4	2,047.99	3/4	1,659.68	3/4	1,271.36	3/4	883.66	3/4	510.00	3/4	121.71	3/4	3/4	3/4		3/4	3/4
1	2,428.22	1	2,039.90	1	1,651.59	1	1,263.27	1	875.87	1	501.91	1	113.62	1	1	1		1	1
1/4	2,420.13	1/4	2,031.81	1/4	1,643.50	1/4	1,255.18	1/4	868.09	1/4	493.82	1/4	105.54	1/4	1/4	1/4		1/4	1/4
1/2	2,412.04	1/2	2,023.72	1/2	1,635.41	1/2	1,247.09	1/2	860.30	1/2	485.73	1/2	97.45	1/2	1/2	1/2		1/2	1/2
3/4	2,403.95	3/4	2,015.63	3/4	1,627.32	3/4	1,239.00	3/4	852.52	3/4	477.64	3/4	89.36	3/4	3/4	3/4		3/4	3/4
2	2,395.86	2	2,007.54	2	1,619.23	2	1,230.91	2	844.74	2	469.55	2	81.27	2	2	2		2	2
1/4	2,387.77	1/4	1,999.45	1/4	1,611.14	1/4	1,222.82	1/4	836.95	1/4	461.46	1/4	73.18	1/4	1/4	1/4		1/4	1/4
1/2	2,379.68	1/2	1,991.36	1/2	1,603.05	1/2	1,214.73	1/2	829.17	1/2	453.38	1/2	65.38	1/2	1/2	1/2		1/2	1/2
3/4	2,371.59	3/4	1,983.27	3/4	1,594.96	3/4	1,206.64	3/4	821.39	3/4	445.29	3/4	57.58	3/4	3/4	3/4		3/4	3/4
3	2,363.50	3	1,975.18	3	1,586.87	3	1,198.55	3	813.62	3	437.20	3	49.78	3	3	3		3	3
1/4	2,355.41	1/4	1,967.09	1/4	1,578.78	1/4	1,190.46	1/4	805.84	1/4	429.11	1/4	41.98	1/4	1/4	1/4		1/4	1/4
1/2	2,347.32	1/2	1,959.00	1/2	1,570.69	1/2	1,182.37	1/2	798.07	1/2	421.02	1/2	36.20	1/2	1/2	1/2		1/2	1/2
3/4	2,339.23	3/4	1,950.91	3/4	1,562.60	3/4	1,174.28	3/4	790.30	3/4	412.93	3/4	30.42	3/4	3/4	3/4		3/4	3/4
4	2,331.14	4	1,942.82	4	1,554.51	4	1,166.19	4	782.53	4	404.84	4	24.65	4	4	4		4	4
1/4	2,323.05	1/4	1,934.73	1/4	1,546.42	1/4	1,158.10	1/4	774.77	1/4	396.75	1/4	18.87	1/4	1/4	1/4		1/4	1/4
1/2	2,314.96	1/2	1,926.64	1/2	1,538.33	1/2	1,150.01	1/2	767.00	1/2	388.66	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,306.87	3/4	1,918.55	3/4	1,530.24	3/4	1,141.92	3/4	759.23	3/4	380.57	3/4		3/4	3/4	3/4		3/4	3/4
5	2,298.78	5	1,910.46	5	1,522.15	5	1,133.83	5	751.46	5	372.48	5		5	5	5		5	5
1/4	2,290.69	1/4	1,902.37	1/4	1,514.06	1/4	1,125.74	1/4	743.69	1/4	364.39	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,282.60	1/2	1,894.28	1/2	1,505.97	1/2	1,117.65	1/2	735.92	1/2	356.30	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,274.51	3/4	1,886.19	3/4	1,497.88	3/4	1,109.56	3/4	728.16	3/4	348.21	3/4		3/4	3/4	3/4		3/4	3/4
6	2,266.42	6	1,878.10	6	1,489.79	6	1,101.47	6	720.39	6	340.13	6		6	6	6		6	6
1/4	2,258.33	1/4	1,870.01	1/4	1,481.70	1/4	1,093.38	1/4	712.62	1/4	332.04	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,250.24	1/2	1,861.92	1/2	1,473.61	1/2	1,085.29	1/2	704.86	1/2	323.95	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,242.15	3/4	1,853.83	3/4	1,465.52	3/4	1,077.20	3/4	697.09	3/4	315.86	3/4		3/4	3/4	3/4		3/4	3/4
7	2,234.06	7	1,845.74	7	1,457.43	7	1,069.11	7	689.33	7	307.77	7		7	7	7		7	7
1/4	2,225.97	1/4	1,837.65	1/4	1,449.34	1/4	1,061.02	1/4	681.56	1/4	299.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,217.88	1/2	1,829.56	1/2	1,441.25	1/2	1,052.93	1/2	673.80	1/2	291.59	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,209.79	3/4	1,821.47	3/4	1,433.16	3/4	1,044.84	3/4	666.04	3/4	283.50	3/4		3/4	3/4	3/4		3/4	3/4
8	2,201.70	8	1,813.38	8	1,425.07	8	1,036.75	8	658.27	8	275.41	8		8	8	8		8	8
1/4	2,193.61	1/4	1,805.30	1/4	1,416.98	1/4	1,028.66	1/4	650.51	1/4	267.32	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,185.52	1/2	1,797.21	1/2	1,408.89	1/2	1,020.57	1/2	642.74	1/2	259.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,177.43	3/4	1,789.12	3/4	1,400.80	3/4	1,012.48	3/4	634.97	3/4	251.14	3/4		3/4	3/4	3/4		3/4	3/4
9	2,169.34	9	1,781.03	9	1,392.71	9	1,004.39	9	627.20	9	243.05	9		9	9	9		9	9
1/4	2,161.25	1/4	1,772.94	1/4	1,384.62	1/4	996.31	1/4	619.44	1/4	234.96	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,153.16	1/2	1,764.85	1/2	1,376.53	1/2	988.22	1/2	611.67	1/2	226.87	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,145.07	3/4	1,756.76	3/4	1,368.44	3/4	980.13	3/4	603.90	3/4	218.79	3/4		3/4	3/4	3/4		3/4	3/4
10	2,136.98	10	1,748.67	10	1,360.35	10	972.04	10	596.13	10	210.70	10		10	10	10		10	10
1/4	2,128.89	1/4	1,740.58	1/4	1,352.26	1/4	963.95	1/4	588.36	1/4	202.61	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,120.80	1/2	1,732.49	1/2	1,344.17	1/2	955.86	1/2	580.59	1/2	194.52	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,112.71	3/4	1,724.40	3/4	1,336.08	3/4	947.77	3/4	572.83	3/4	186.43	3/4		3/4	3/4	3/4		3/4	3/4
11	2,104.62	11	1,716.31	11	1,327.99	11	939.68	11	565.06	11	178.34	11		11	11	11		11	11
1/4	2,096.53	1/4	1,708.22	1/4	1,319.90	1/4	931.59	1/4	557.29	1/4	170.25	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,088.44	1/2	1,700.13	1/2	1,311.81	1/2	923.50	1/2	549.51	1/2	162.16	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,080.35	3/4	1,692.04	3/4	1,303.72	3/4	915.41	3/4	541.73	3/4	154.07	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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 384"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,191.71	0	4,805.20	0	4,416.93	0	4,028.66	0	3,640.39	0	3,252.10	0	2,863.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,183.66	1/4	4,797.11	1/4	4,408.84	1/4	4,020.57	1/4	3,632.31	1/4	3,244.01	1/4	2,855.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,175.62	1/2	4,789.02	1/2	4,400.75	1/2	4,012.48	1/2	3,624.22	1/2	3,235.92	1/2	2,847.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,167.58	3/4	4,780.93	3/4	4,392.66	3/4	4,004.39	3/4	3,616.13	3/4	3,227.83	3/4	2,839.52		
1		1		1		1	5,159.54	1	4,772.84	1	4,384.57	1	3,996.31	1	3,608.04	1	3,219.74	1	2,831.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,151.50	1/4	4,764.75	1/4	4,376.48	1/4	3,988.22	1/4	3,599.95	1/4	3,211.65	1/4	2,823.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,143.46	1/2	4,756.66	1/2	4,368.40	1/2	3,980.13	1/2	3,591.86	1/2	3,203.56	1/2	2,815.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.42	3/4	4,748.57	3/4	4,360.31	3/4	3,972.04	3/4	3,583.77	3/4	3,195.47	3/4	2,807.16		
2		2		2		2	5,127.37	2	4,740.48	2	4,352.22	2	3,963.95	2	3,575.68	2	3,187.38	2	2,799.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,119.33	1/4	4,732.40	1/4	4,344.13	1/4	3,955.86	1/4	3,567.59	1/4	3,179.29	1/4	2,790.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,111.29	1/2	4,724.31	1/2	4,336.04	1/2	3,947.77	1/2	3,559.51	1/2	3,171.21	1/2	2,782.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,103.25	3/4	4,716.22	3/4	4,327.95	3/4	3,939.68	3/4	3,551.42	3/4	3,163.12	3/4	2,774.80		
3		3		3		3	5,095.21	3	4,708.13	3	4,319.86	3	3,931.59	3	3,543.33	3	3,155.03	3	2,766.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,087.17	1/4	4,700.04	1/4	4,311.77	1/4	3,923.51	1/4	3,535.24	1/4	3,146.94	1/4	2,758.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,079.13	1/2	4,691.95	1/2	4,303.68	1/2	3,915.42	1/2	3,527.15	1/2	3,138.85	1/2	2,750.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,071.08	3/4	4,683.86	3/4	4,295.60	3/4	3,907.33	3/4	3,519.06	3/4	3,130.76	3/4	2,742.44		
4		4		4		4	5,063.04	4	4,675.77	4	4,287.51	4	3,899.24	4	3,510.97	4	3,122.67	4	2,734.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,055.00	1/4	4,667.68	1/4	4,279.42	1/4	3,891.15	1/4	3,502.88	1/4	3,114.58	1/4	2,726.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,046.96	1/2	4,659.60	1/2	4,271.33	1/2	3,883.06	1/2	3,494.79	1/2	3,106.49	1/2	2,718.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,038.92	3/4	4,651.51	3/4	4,263.24	3/4	3,874.97	3/4	3,486.71	3/4	3,098.40	3/4	2,710.08		
5		5		5		5	5,030.88	5	4,643.42	5	4,255.15	5	3,866.88	5	3,478.62	5	3,090.31	5	2,701.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,022.84	1/4	4,635.33	1/4	4,247.06	1/4	3,858.79	1/4	3,470.53	1/4	3,082.22	1/4	2,693.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,014.79	1/2	4,627.24	1/2	4,238.97	1/2	3,850.71	1/2	3,462.44	1/2	3,074.13	1/2	2,685.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,006.75	3/4	4,619.15	3/4	4,230.88	3/4	3,842.62	3/4	3,454.35	3/4	3,066.04	3/4	2,677.72		
6		6		6		6	4,998.71	6	4,611.06	6	4,222.80	6	3,834.53	6	3,446.26	6	3,057.95	6	2,669.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,990.67	1/4	4,602.97	1/4	4,214.71	1/4	3,826.44	1/4	3,438.17	1/4	3,049.86	1/4	2,661.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,360.51	1/2	4,982.63	1/2	4,594.88	1/2	4,206.62	1/2	3,818.35	1/2	3,430.08	1/2	3,041.77	1/2	2,653.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,354.39	3/4	4,974.59	3/4	4,586.80	3/4	4,198.53	3/4	3,810.26	3/4	3,421.99	3/4	3,033.68	3/4	2,645.36
7		7		7		7	5,348.27	7	4,966.55	7	4,578.71	7	4,190.44	7	3,802.17	7	3,413.90	7	3,025.59	7	2,637.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,342.15	1/4	4,958.50	1/4	4,570.62	1/4	4,182.35	1/4	3,794.08	1/4	3,405.81	1/4	3,017.50	1/4	2,629.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,334.61	1/2	4,950.46	1/2	4,562.53	1/2	4,174.26	1/2	3,785.99	1/2	3,397.72	1/2	3,009.41	1/2	2,621.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,327.07	3/4	4,942.42	3/4	4,554.44	3/4	4,166.17	3/4	3,777.91	3/4	3,389.63	3/4	3,001.32	3/4	2,613.00
8		8		8		8	5,319.53	8	4,934.38	8	4,546.35	8	4,158.08	8	3,769.82	8	3,381.54	8	2,993.23	8	2,604.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,311.98	1/4	4,926.34	1/4	4,538.26	1/4	4,149.99	1/4	3,761.73	1/4	3,373.45	1/4	2,985.14	1/4	2,596.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,304.03	1/2	4,918.30	1/2	4,530.17	1/2	4,141.91	1/2	3,753.64	1/2	3,365.36	1/2	2,977.05	1/2	2,588.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,296.07	3/4	4,910.26	3/4	4,522.08	3/4	4,133.82	3/4	3,745.55	3/4	3,357.27	3/4	2,968.96	3/4	2,580.64
9		9		9		9	5,288.12	9	4,902.22	9	4,514.00	9	4,125.73	9	3,737.46	9	3,349.18	9	2,960.87	9	2,572.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,280.16	1/4	4,894.17	1/4	4,505.91	1/4	4,117.64	1/4	3,729.37	1/4	3,341.09	1/4	2,952.78	1/4	2,564.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,272.12	1/2	4,886.08	1/2	4,497.82	1/2	4,109.55	1/2	3,721.28	1/2	3,333.00	1/2	2,944.69	1/2	2,556.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,264.08	3/4	4,878.00	3/4	4,489.73	3/4	4,101.46	3/4	3,713.19	3/4	3,324.91	3/4	2,936.60	3/4	2,548.28
10		10		10		10	5,256.04	10	4,869.91	10	4,481.64	10	4,093.37	10	3,705.11	10	3,316.82	10	2,928.51	10	2,540.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,248.00	1/4	4,861.82	1/4	4,473.55	1/4	4,085.28	1/4	3,697.02	1/4	3,308.73	1/4	2,920.42	1/4	2,532.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,239.95	1/2	4,853.73	1/2	4,465.46	1/2	4,077.19	1/2	3,688.93	1/2	3,300.64	1/2	2,912.33	1/2	2,524.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,231.91	3/4	4,845.64	3/4	4,457.37	3/4	4,069.11	3/4	3,680.84	3/4	3,292.55	3/4	2,904.24	3/4	2,515.92
11		11		11		11	5,223.87	11	4,837.55	11	4,449.28	11	4,061.02	11	3,672.75	11	3,284.46	11	2,896.15	11	2,507.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,215.83	1/4	4,829.46	1/4	4,441.20	1/4	4,052.93	1/4	3,664.66	1/4	3,276.37	1/4	2,888.06	1/4	2,499.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,207.79	1/2	4,821.37	1/2	4,433.11	1/2	4,044.84	1/2	3,656.57	1/2	3,268.28	1/2	2,879.97	1/2	2,491.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,199.75	3/4	4,813.28	3/4	4,425.02	3/4	4,036.75	3/4	3,648.48	3/4	3,260.19	3/4	2,871.88	3/4	2,483.56

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "EMS 384"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	2,475.47	0	2,087.16	0	1,698.84	0	1,310.53	0	922.21	0	534.27	0	145.98	0		0		0	
1/4	2,467.38	1/4	2,079.07	1/4	1,690.75	1/4	1,302.44	1/4	914.12	1/4	526.18	1/4	137.89	1/4	1/4	1/4		1/4	1/4
1/2	2,459.29	1/2	2,070.98	1/2	1,682.66	1/2	1,294.35	1/2	906.03	1/2	518.09	1/2	129.80	1/2	1/2	1/2		1/2	1/2
3/4	2,451.20	3/4	2,062.89	3/4	1,674.57	3/4	1,286.26	3/4	897.94	3/4	510.00	3/4	121.71	3/4	3/4	3/4		3/4	3/4
1	2,443.11	1	2,054.80	1	1,666.48	1	1,278.17	1	889.85	1	501.91	1	113.63	1	1	1		1	1
1/4	2,435.02	1/4	2,046.71	1/4	1,658.39	1/4	1,270.08	1/4	881.76	1/4	493.82	1/4	105.54	1/4	1/4	1/4		1/4	1/4
1/2	2,426.93	1/2	2,038.62	1/2	1,650.30	1/2	1,261.99	1/2	873.67	1/2	485.73	1/2	97.45	1/2	1/2	1/2		1/2	1/2
3/4	2,418.84	3/4	2,030.53	3/4	1,642.21	3/4	1,253.90	3/4	865.58	3/4	477.64	3/4	89.36	3/4	3/4	3/4		3/4	3/4
2	2,410.75	2	2,022.44	2	1,634.12	2	1,245.81	2	857.49	2	469.55	2	81.27	2	2	2		2	2
1/4	2,402.66	1/4	2,014.35	1/4	1,626.03	1/4	1,237.72	1/4	849.40	1/4	461.46	1/4	73.18	1/4	1/4	1/4		1/4	1/4
1/2	2,394.57	1/2	2,006.26	1/2	1,617.94	1/2	1,229.63	1/2	841.31	1/2	453.38	1/2	65.38	1/2	1/2	1/2		1/2	1/2
3/4	2,386.48	3/4	1,998.17	3/4	1,609.85	3/4	1,221.54	3/4	833.22	3/4	445.29	3/4	57.58	3/4	3/4	3/4		3/4	3/4
3	2,378.39	3	1,990.08	3	1,601.76	3	1,213.45	3	825.13	3	437.20	3	49.78	3	3	3		3	3
1/4	2,370.30	1/4	1,981.99	1/4	1,593.67	1/4	1,205.36	1/4	817.04	1/4	429.11	1/4	41.98	1/4	1/4	1/4		1/4	1/4
1/2	2,362.22	1/2	1,973.90	1/2	1,585.58	1/2	1,197.27	1/2	808.96	1/2	421.02	1/2	36.20	1/2	1/2	1/2		1/2	1/2
3/4	2,354.13	3/4	1,965.81	3/4	1,577.49	3/4	1,189.18	3/4	800.89	3/4	412.93	3/4	30.42	3/4	3/4	3/4		3/4	3/4
4	2,346.04	4	1,957.72	4	1,569.40	4	1,181.09	4	792.81	4	404.84	4	24.65	4	4	4		4	4
1/4	2,337.95	1/4	1,949.63	1/4	1,561.31	1/4	1,173.00	1/4	784.73	1/4	396.75	1/4	18.87	1/4	1/4	1/4		1/4	1/4
1/2	2,329.86	1/2	1,941.54	1/2	1,553.23	1/2	1,164.91	1/2	776.65	1/2	388.66	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,321.77	3/4	1,933.45	3/4	1,545.14	3/4	1,156.82	3/4	768.57	3/4	380.57	3/4		3/4	3/4	3/4		3/4	3/4
5	2,313.68	5	1,925.36	5	1,537.05	5	1,148.73	5	760.49	5	372.48	5		5	5	5		5	5
1/4	2,305.59	1/4	1,917.27	1/4	1,528.96	1/4	1,140.64	1/4	752.41	1/4	364.39	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,297.50	1/2	1,909.18	1/2	1,520.87	1/2	1,132.55	1/2	744.33	1/2	356.30	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,289.41	3/4	1,901.09	3/4	1,512.78	3/4	1,124.46	3/4	736.25	3/4	348.21	3/4		3/4	3/4	3/4		3/4	3/4
6	2,281.32	6	1,893.00	6	1,504.69	6	1,116.37	6	728.17	6	340.13	6		6	6	6		6	6
1/4	2,273.23	1/4	1,884.91	1/4	1,496.60	1/4	1,108.28	1/4	720.09	1/4	332.04	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,265.14	1/2	1,876.82	1/2	1,488.51	1/2	1,100.19	1/2	712.02	1/2	323.95	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,257.05	3/4	1,868.73	3/4	1,480.42	3/4	1,092.10	3/4	703.94	3/4	315.86	3/4		3/4	3/4	3/4		3/4	3/4
7	2,248.96	7	1,860.64	7	1,472.33	7	1,084.01	7	695.86	7	307.77	7		7	7	7		7	7
1/4	2,240.87	1/4	1,852.55	1/4	1,464.24	1/4	1,075.92	1/4	687.79	1/4	299.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,232.78	1/2	1,844.46	1/2	1,456.15	1/2	1,067.83	1/2	679.71	1/2	291.59	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,224.69	3/4	1,836.37	3/4	1,448.06	3/4	1,059.74	3/4	671.64	3/4	283.50	3/4		3/4	3/4	3/4		3/4	3/4
8	2,216.60	8	1,828.28	8	1,439.97	8	1,051.65	8	663.56	8	275.41	8		8	8	8		8	8
1/4	2,208.51	1/4	1,820.19	1/4	1,431.88	1/4	1,043.56	1/4	655.49	1/4	267.32	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,200.42	1/2	1,812.10	1/2	1,423.79	1/2	1,035.47	1/2	647.41	1/2	259.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,192.33	3/4	1,804.01	3/4	1,415.70	3/4	1,027.38	3/4	639.33	3/4	251.14	3/4		3/4	3/4	3/4		3/4	3/4
9	2,184.24	9	1,795.92	9	1,407.61	9	1,019.29	9	631.25	9	243.05	9		9	9	9		9	9
1/4	2,176.15	1/4	1,787.83	1/4	1,399.52	1/4	1,011.20	1/4	623.17	1/4	234.96	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,168.06	1/2	1,779.74	1/2	1,391.43	1/2	1,003.11	1/2	615.09	1/2	226.88	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,159.97	3/4	1,771.65	3/4	1,383.34	3/4	995.02	3/4	607.01	3/4	218.79	3/4		3/4	3/4	3/4		3/4	3/4
10	2,151.88	10	1,763.56	10	1,375.25	10	986.93	10	598.93	10	210.70	10		10	10	10		10	10
1/4	2,143.79	1/4	1,755.47	1/4	1,367.16	1/4	978.84	1/4	590.85	1/4	202.61	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,135.70	1/2	1,747.38	1/2	1,359.07	1/2	970.75	1/2	582.77	1/2	194.52	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,127.61	3/4	1,739.29	3/4	1,350.98	3/4	962.66	3/4	574.70	3/4	186.43	3/4		3/4	3/4	3/4		3/4	3/4
11	2,119.52	11	1,731.20	11	1,342.89	11	954.57	11	566.62	11	178.34	11		11	11	11		11	11
1/4	2,111.43	1/4	1,723.11	1/4	1,334.80	1/4	946.48	1/4	558.54	1/4	170.25	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,103.34	1/2	1,715.02	1/2	1,326.71	1/2	938.39	1/2	550.45	1/2	162.16	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,095.25	3/4	1,706.93	3/4	1,318.62	3/4	930.30	3/4	542.36	3/4	154.07	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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





# BARGE "EMS 384"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,586.69		4,282.05		3,976.10		3,670.15		3,359.63		2,999.06		2,638.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,580.35	1/4	4,275.68	1/4	3,969.73	1/4	3,663.78	1/4	3,352.11	1/4	2,991.55	1/4	2,630.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,574.01	1/2	4,269.31	1/2	3,963.35	1/2	3,657.40	1/2	3,344.60	1/2	2,984.04	1/2	2,623.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,567.68	3/4	4,262.93	3/4	3,956.98	3/4	3,651.03	3/4	3,337.08	3/4	2,976.53	3/4	2,615.81
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4,561.34</b>	<b>1</b>	<b>4,256.56</b>	<b>1</b>	<b>3,950.61</b>	<b>1</b>	<b>3,644.65</b>	<b>1</b>	<b>3,329.56</b>	<b>1</b>	<b>2,969.02</b>	<b>1</b>	<b>2,608.30</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,555.00	1/4	4,250.18	1/4	3,944.23	1/4	3,638.28	1/4	3,322.05	1/4	2,961.51	1/4	2,600.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,548.66	1/2	4,243.81	1/2	3,937.86	1/2	3,631.91	1/2	3,314.53	1/2	2,954.00	1/2	2,593.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,542.33	3/4	4,237.44	3/4	3,931.48	3/4	3,625.53	3/4	3,307.01	3/4	2,946.49	3/4	2,585.74
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4,535.99</b>	<b>2</b>	<b>4,231.06</b>	<b>2</b>	<b>3,925.11</b>	<b>2</b>	<b>3,619.16</b>	<b>2</b>	<b>3,299.50</b>	<b>2</b>	<b>2,938.99</b>	<b>2</b>	<b>2,578.23</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,529.65	1/4	4,224.69	1/4	3,918.74	1/4	3,612.78	1/4	3,291.98	1/4	2,931.48	1/4	2,570.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,523.31	1/2	4,218.31	1/2	3,912.36	1/2	3,606.41	1/2	3,284.47	1/2	2,923.97	1/2	2,563.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,516.98	3/4	4,211.94	3/4	3,905.99	3/4	3,600.04	3/4	3,276.95	3/4	2,916.46	3/4	2,555.68
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,510.64</b>	<b>3</b>	<b>4,205.57</b>	<b>3</b>	<b>3,899.61</b>	<b>3</b>	<b>3,593.66</b>	<b>3</b>	<b>3,269.43</b>	<b>3</b>	<b>2,908.95</b>	<b>3</b>	<b>2,548.16</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,504.30	1/4	4,199.19	1/4	3,893.24	1/4	3,587.29	1/4	3,261.92	1/4	2,901.44	1/4	2,540.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,497.96	1/2	4,192.82	1/2	3,886.87	1/2	3,580.91	1/2	3,254.40	1/2	2,893.93	1/2	2,533.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,491.63	3/4	4,186.44	3/4	3,880.49	3/4	3,574.54	3/4	3,246.89	3/4	2,886.42	3/4	2,525.61
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,485.29</b>	<b>4</b>	<b>4,180.07</b>	<b>4</b>	<b>3,874.12</b>	<b>4</b>	<b>3,568.17</b>	<b>4</b>	<b>3,239.37</b>	<b>4</b>	<b>2,878.91</b>	<b>4</b>	<b>2,518.09</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,478.95	1/4	4,173.70	1/4	3,867.74	1/4	3,561.79	1/4	3,231.86	1/4	2,871.39	1/4	2,510.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,472.61	1/2	4,167.32	1/2	3,861.37	1/2	3,555.42	1/2	3,224.35	1/2	2,863.87	1/2	2,503.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,466.28	3/4	4,160.95	3/4	3,855.00	3/4	3,549.04	3/4	3,216.84	3/4	2,856.36	3/4	2,495.54
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,459.94</b>	<b>5</b>	<b>4,154.57</b>	<b>5</b>	<b>3,848.62</b>	<b>5</b>	<b>3,542.67</b>	<b>5</b>	<b>3,209.33</b>	<b>5</b>	<b>2,848.84</b>	<b>5</b>	<b>2,488.02</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,453.60	1/4	4,148.20	1/4	3,842.25	1/4	3,536.30	1/4	3,201.82	1/4	2,841.32	1/4	2,480.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.26	1/2	4,141.83	1/2	3,835.87	1/2	3,529.92	1/2	3,194.31	1/2	2,833.81	1/2	2,472.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,440.93	3/4	4,135.45	3/4	3,829.50	3/4	3,523.55	3/4	3,186.80	3/4	2,826.29	3/4	2,465.47
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,434.59</b>	<b>6</b>	<b>4,129.08</b>	<b>6</b>	<b>3,823.13</b>	<b>6</b>	<b>3,517.17</b>	<b>6</b>	<b>3,179.30</b>	<b>6</b>	<b>2,818.77</b>	<b>6</b>	<b>2,457.96</b>
1/4	1/4	1/4	4,737.41	1/4	4,428.25	1/4	4,122.70	1/4	3,816.75	1/4	3,510.80	1/4	3,171.79	1/4	2,811.25	1/4	2,450.44		
1/2	1/2	1/2	4,731.72	1/2	4,421.92	1/2	4,116.33	1/2	3,810.38	1/2	3,504.43	1/2	3,164.28	1/2	2,803.74	1/2	2,442.92		
3/4	3/4	3/4	4,726.04	3/4	4,415.58	3/4	4,109.96	3/4	3,804.00	3/4	3,498.05	3/4	3,156.77	3/4	2,796.22	3/4	2,435.40		
<b>7</b>	<b>7</b>	<b>7</b>	<b>4,720.35</b>	<b>7</b>	<b>4,409.24</b>	<b>7</b>	<b>4,103.58</b>	<b>7</b>	<b>3,797.63</b>	<b>7</b>	<b>3,491.68</b>	<b>7</b>	<b>3,149.26</b>	<b>7</b>	<b>2,788.70</b>	<b>7</b>	<b>2,427.89</b>		
1/4	1/4	1/4	4,713.34	1/4	4,402.90	1/4	4,097.21	1/4	3,791.26	1/4	3,485.30	1/4	3,141.75	1/4	2,781.19	1/4	2,420.37		
1/2	1/2	1/2	4,706.33	1/2	4,396.57	1/2	4,090.83	1/2	3,784.88	1/2	3,478.93	1/2	3,134.24	1/2	2,773.67	1/2	2,412.85		
3/4	3/4	3/4	4,699.32	3/4	4,390.23	3/4	4,084.46	3/4	3,778.51	3/4	3,472.56	3/4	3,126.73	3/4	2,766.15	3/4	2,405.34		
<b>8</b>	<b>8</b>	<b>8</b>	<b>4,692.31</b>	<b>8</b>	<b>4,383.89</b>	<b>8</b>	<b>4,078.09</b>	<b>8</b>	<b>3,772.13</b>	<b>8</b>	<b>3,466.18</b>	<b>8</b>	<b>3,119.22</b>	<b>8</b>	<b>2,758.64</b>	<b>8</b>	<b>2,397.82</b>		
1/4	1/4	1/4	4,684.92	1/4	4,377.55	1/4	4,071.71	1/4	3,765.76	1/4	3,459.81	1/4	3,111.71	1/4	2,751.12	1/4	2,390.30		
1/2	1/2	1/2	4,677.52	1/2	4,371.22	1/2	4,065.34	1/2	3,759.39	1/2	3,453.43	1/2	3,104.20	1/2	2,743.60	1/2	2,382.79		
3/4	3/4	3/4	4,670.13	3/4	4,364.88	3/4	4,058.96	3/4	3,753.01	3/4	3,447.06	3/4	3,096.69	3/4	2,736.08	3/4	2,375.27		
<b>9</b>	<b>9</b>	<b>9</b>	<b>4,662.74</b>	<b>9</b>	<b>4,358.54</b>	<b>9</b>	<b>4,052.59</b>	<b>9</b>	<b>3,746.64</b>	<b>9</b>	<b>3,440.69</b>	<b>9</b>	<b>3,089.18</b>	<b>9</b>	<b>2,728.57</b>	<b>9</b>	<b>2,367.75</b>		
1/4	1/4	1/4	4,656.40	1/4	4,352.17	1/4	4,046.22	1/4	3,740.26	1/4	3,434.31	1/4	3,081.67	1/4	2,721.05	1/4	2,360.23		
1/2	1/2	1/2	4,650.06	1/2	4,345.79	1/2	4,039.84	1/2	3,733.89	1/2	3,427.94	1/2	3,074.16	1/2	2,713.53	1/2	2,352.72		
3/4	3/4	3/4	4,643.72	3/4	4,339.42	3/4	4,033.47	3/4	3,727.52	3/4	3,421.56	3/4	3,066.65	3/4	2,706.02	3/4	2,345.20		
<b>10</b>	<b>10</b>	<b>10</b>	<b>4,637.39</b>	<b>10</b>	<b>4,333.05</b>	<b>10</b>	<b>4,027.09</b>	<b>10</b>	<b>3,721.14</b>	<b>10</b>	<b>3,415.19</b>	<b>10</b>	<b>3,059.14</b>	<b>10</b>	<b>2,698.50</b>	<b>10</b>	<b>2,337.68</b>		
1/4	1/4	1/4	4,631.05	1/4	4,326.67	1/4	4,020.72	1/4	3,714.77	1/4	3,408.82	1/4	3,051.63	1/4	2,690.98	1/4	2,330.17		
1/2	1/2	1/2	4,624.71	1/2	4,320.30	1/2	4,014.35	1/2	3,708.39	1/2	3,402.44	1/2	3,044.12	1/2	2,683.47	1/2	2,322.65		
3/4	3/4	3/4	4,618.37	3/4	4,313.92	3/4	4,007.97	3/4	3,702.02	3/4	3,396.07	3/4	3,036.61	3/4	2,675.95	3/4	2,315.13		
<b>11</b>	<b>11</b>	<b>11</b>	<b>4,612.04</b>	<b>11</b>	<b>4,307.55</b>	<b>11</b>	<b>4,001.60</b>	<b>11</b>	<b>3,695.65</b>	<b>11</b>	<b>3,389.69</b>	<b>11</b>	<b>3,029.10</b>	<b>11</b>	<b>2,668.43</b>	<b>11</b>	<b>2,307.62</b>		
1/4	1/4	1/4	4,605.70	1/4	4,301.18	1/4	3,995.22	1/4	3,689.27	1/4	3,382.18	1/4	3,021.59	1/4	2,660.91	1/4	2,300.10		
1/2	1/2	1/2	4,599.36	1/2	4,294.80	1/2	3,988.85	1/2	3,682.90	1/2	3,374.66	1/2	3,014.08	1/2	2,653.40	1/2	2,292.58		
3/4	3/4	3/4	4,593.02	3/4	4,288.43	3/4	3,982.48	3/4	3,676.52	3/4	3,367.14	3/4	3,006.57	3/4	2,645.88	3/4	2,285.06		

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "EMS 384"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,277.55	0	1,917.24	0	1,557.09	0	1,196.43	0	835.99	0	489.04	0	128.18	0		0		0	
1/4	2,270.03	1/4	1,909.74	1/4	1,549.58	1/4	1,188.92	1/4	828.76	1/4	481.52	1/4	120.66	1/4	1/4	1/4		1/4	
1/2	2,262.51	1/2	1,902.25	1/2	1,542.06	1/2	1,181.40	1/2	821.54	1/2	474.00	1/2	113.14	1/2	1/2	1/2		1/2	
3/4	2,255.00	3/4	1,894.75	3/4	1,534.55	3/4	1,173.89	3/4	814.31	3/4	466.49	3/4	105.63	3/4	3/4	3/4		3/4	
1	2,247.48	1	1,887.26	1	1,527.04	1	1,166.38	1	807.08	1	458.97	1	98.11	1	1	1		1	
1/4	2,239.96	1/4	1,879.77	1/4	1,519.52	1/4	1,158.86	1/4	799.85	1/4	451.45	1/4	90.59	1/4	1/4	1/4		1/4	
1/2	2,232.45	1/2	1,872.27	1/2	1,512.01	1/2	1,151.35	1/2	792.63	1/2	443.93	1/2	83.07	1/2	1/2	1/2		1/2	
3/4	2,224.93	3/4	1,864.78	3/4	1,504.49	3/4	1,143.84	3/4	785.40	3/4	436.41	3/4	75.55	3/4	3/4	3/4		3/4	
2	2,217.41	2	1,857.28	2	1,496.98	2	1,136.32	2	778.17	2	428.90	2	68.04	2	2	2		2	
1/4	2,209.89	1/4	1,849.79	1/4	1,489.47	1/4	1,128.81	1/4	770.94	1/4	421.38	1/4	60.79	1/4	1/4	1/4		1/4	
1/2	2,202.38	1/2	1,842.30	1/2	1,481.95	1/2	1,121.30	1/2	763.70	1/2	413.86	1/2	53.54	1/2	1/2	1/2		1/2	
3/4	2,194.86	3/4	1,834.80	3/4	1,474.44	3/4	1,113.78	3/4	756.46	3/4	406.34	3/4	46.29	3/4	3/4	3/4		3/4	
3	2,187.34	3	1,827.31	3	1,466.93	3	1,106.27	3	749.22	3	398.82	3	39.04	3	3	3		3	
1/4	2,179.83	1/4	1,819.81	1/4	1,459.41	1/4	1,098.75	1/4	742.00	1/4	391.31	1/4	33.67	1/4	1/4	1/4		1/4	
1/2	2,172.31	1/2	1,812.32	1/2	1,451.90	1/2	1,091.24	1/2	734.77	1/2	383.79	1/2	28.30	1/2	1/2	1/2		1/2	
3/4	2,164.79	3/4	1,804.83	3/4	1,444.38	3/4	1,083.73	3/4	727.54	3/4	376.27	3/4	22.93	3/4	3/4	3/4		3/4	
4	2,157.28	4	1,797.33	4	1,436.87	4	1,076.21	4	720.31	4	368.75	4	17.56	4	4	4		4	
1/4	2,149.76	1/4	1,789.84	1/4	1,429.36	1/4	1,068.70	1/4	713.09	1/4	361.23	1/4		1/4	1/4	1/4		1/4	
1/2	2,142.24	1/2	1,782.34	1/2	1,421.84	1/2	1,061.19	1/2	705.86	1/2	353.72	1/2		1/2	1/2	1/2		1/2	
3/4	2,134.72	3/4	1,774.85	3/4	1,414.33	3/4	1,053.67	3/4	698.63	3/4	346.20	3/4		3/4	3/4	3/4		3/4	
5	2,127.21	5	1,767.36	5	1,406.82	5	1,046.16	5	691.40	5	338.68	5		5	5	5		5	
1/4	2,119.69	1/4	1,759.86	1/4	1,399.30	1/4	1,038.64	1/4	684.18	1/4	331.16	1/4		1/4	1/4	1/4		1/4	
1/2	2,112.17	1/2	1,752.37	1/2	1,391.79	1/2	1,031.13	1/2	676.95	1/2	323.65	1/2		1/2	1/2	1/2		1/2	
3/4	2,104.66	3/4	1,744.87	3/4	1,384.27	3/4	1,023.62	3/4	669.72	3/4	316.13	3/4		3/4	3/4	3/4		3/4	
6	2,097.14	6	1,737.38	6	1,376.76	6	1,016.10	6	662.49	6	308.61	6		6	6	6		6	
1/4	2,089.63	1/4	1,729.88	1/4	1,369.25	1/4	1,008.60	1/4	655.27	1/4	301.09	1/4		1/4	1/4	1/4		1/4	
1/2	2,082.13	1/2	1,722.37	1/2	1,361.73	1/2	1,001.09	1/2	648.05	1/2	293.57	1/2		1/2	1/2	1/2		1/2	
3/4	2,074.62	3/4	1,714.87	3/4	1,354.22	3/4	993.59	3/4	640.83	3/4	286.06	3/4		3/4	3/4	3/4		3/4	
7	2,067.12	7	1,707.36	7	1,346.71	7	986.08	7	633.60	7	278.54	7		7	7	7		7	
1/4	2,059.62	1/4	1,699.85	1/4	1,339.19	1/4	978.58	1/4	626.38	1/4	271.02	1/4		1/4	1/4	1/4		1/4	
1/2	2,052.13	1/2	1,692.34	1/2	1,331.68	1/2	971.08	1/2	619.16	1/2	263.50	1/2		1/2	1/2	1/2		1/2	
3/4	2,044.63	3/4	1,684.82	3/4	1,324.17	3/4	963.57	3/4	611.94	3/4	255.98	3/4		3/4	3/4	3/4		3/4	
8	2,037.14	8	1,677.31	8	1,316.65	8	956.07	8	604.71	8	248.47	8		8	8	8		8	
1/4	2,029.65	1/4	1,669.80	1/4	1,309.14	1/4	948.56	1/4	597.49	1/4	240.95	1/4		1/4	1/4	1/4		1/4	
1/2	2,022.15	1/2	1,662.28	1/2	1,301.62	1/2	941.06	1/2	590.26	1/2	233.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,014.66	3/4	1,654.77	3/4	1,294.11	3/4	933.55	3/4	583.03	3/4	225.91	3/4		3/4	3/4	3/4		3/4	
9	2,007.16	9	1,647.25	9	1,286.60	9	926.05	9	575.80	9	218.39	9		9	9	9		9	
1/4	1,999.67	1/4	1,639.74	1/4	1,279.08	1/4	918.54	1/4	568.58	1/4	210.88	1/4		1/4	1/4	1/4		1/4	
1/2	1,992.18	1/2	1,632.23	1/2	1,271.57	1/2	911.04	1/2	561.35	1/2	203.36	1/2		1/2	1/2	1/2		1/2	
3/4	1,984.68	3/4	1,624.71	3/4	1,264.06	3/4	903.53	3/4	554.12	3/4	195.84	3/4		3/4	3/4	3/4		3/4	
10	1,977.19	10	1,617.20	10	1,256.54	10	896.03	10	546.89	10	188.32	10		10	10	10		10	
1/4	1,969.69	1/4	1,609.69	1/4	1,249.03	1/4	888.52	1/4	539.67	1/4	180.81	1/4		1/4	1/4	1/4		1/4	
1/2	1,962.20	1/2	1,602.17	1/2	1,241.51	1/2	881.02	1/2	532.44	1/2	173.29	1/2		1/2	1/2	1/2		1/2	
3/4	1,954.71	3/4	1,594.66	3/4	1,234.00	3/4	873.51	3/4	525.21	3/4	165.77	3/4		3/4	3/4	3/4		3/4	
11	1,947.21	11	1,587.14	11	1,226.49	11	866.01	11	517.98	11	158.25	11		11	11	11		11	
1/4	1,939.72	1/4	1,579.63	1/4	1,218.97	1/4	858.50	1/4	510.75	1/4	150.73	1/4		1/4	1/4	1/4		1/4	
1/2	1,932.22	1/2	1,572.12	1/2	1,211.46	1/2	851.00	1/2	503.51	1/2	143.22	1/2		1/2	1/2	1/2		1/2	
3/4	1,924.73	3/4	1,564.60	3/4	1,203.95	3/4	843.50	3/4	496.28	3/4	135.70	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

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 384"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,588.18	0	4,283.58	0	3,977.64	0	3,671.70	0	3,362.36	0	3,002.35	0	2,642.22
1/4		1/4		1/4		1/4	4,581.84	1/4	4,277.21	1/4	3,971.26	1/4	3,665.32	1/4	3,354.86	1/4	2,994.85	1/4	2,634.71
1/2		1/2		1/2		1/2	4,575.51	1/2	4,270.83	1/2	3,964.89	1/2	3,658.95	1/2	3,347.35	1/2	2,987.35	1/2	2,627.20
3/4		3/4		3/4		3/4	4,569.17	3/4	4,264.46	3/4	3,958.52	3/4	3,652.57	3/4	3,339.85	3/4	2,979.86	3/4	2,619.70
1		1		1		1	4,562.83	1	4,258.09	1	3,952.14	1	3,646.20	1	3,332.34	1	2,972.36	1	2,612.19
1/4		1/4		1/4		1/4	4,556.49	1/4	4,251.71	1/4	3,945.77	1/4	3,639.83	1/4	3,324.84	1/4	2,964.86	1/4	2,604.69
1/2		1/2		1/2		1/2	4,550.16	1/2	4,245.34	1/2	3,939.40	1/2	3,633.45	1/2	3,317.33	1/2	2,957.36	1/2	2,597.18
3/4		3/4		3/4		3/4	4,543.82	3/4	4,238.96	3/4	3,933.02	3/4	3,627.08	3/4	3,309.83	3/4	2,949.86	3/4	2,589.68
2		2		2		2	4,537.48	2	4,232.59	2	3,926.65	2	3,620.71	2	3,302.33	2	2,942.37	2	2,582.17
1/4		1/4		1/4		1/4	4,531.14	1/4	4,226.22	1/4	3,920.27	1/4	3,614.33	1/4	3,294.82	1/4	2,934.87	1/4	2,574.67
1/2		1/2		1/2		1/2	4,524.81	1/2	4,219.84	1/2	3,913.90	1/2	3,607.96	1/2	3,287.32	1/2	2,927.37	1/2	2,567.16
3/4		3/4		3/4		3/4	4,518.47	3/4	4,213.47	3/4	3,907.53	3/4	3,601.58	3/4	3,279.81	3/4	2,919.87	3/4	2,559.66
3		3		3		3	4,512.13	3	4,207.10	3	3,901.15	3	3,595.21	3	3,272.31	3	2,912.37	3	2,552.15
1/4		1/4		1/4		1/4	4,505.79	1/4	4,200.72	1/4	3,894.78	1/4	3,588.84	1/4	3,264.80	1/4	2,904.88	1/4	2,544.65
1/2		1/2		1/2		1/2	4,499.46	1/2	4,194.35	1/2	3,888.41	1/2	3,582.46	1/2	3,257.30	1/2	2,897.38	1/2	2,537.15
3/4		3/4		3/4		3/4	4,493.12	3/4	4,187.97	3/4	3,882.03	3/4	3,576.09	3/4	3,249.79	3/4	2,889.88	3/4	2,529.65
4		4		4		4	4,486.78	4	4,181.60	4	3,875.66	4	3,569.72	4	3,242.29	4	2,882.38	4	2,522.16
1/4		1/4		1/4		1/4	4,480.44	1/4	4,175.23	1/4	3,869.28	1/4	3,563.34	1/4	3,234.79	1/4	2,874.88	1/4	2,514.66
1/2		1/2		1/2		1/2	4,474.11	1/2	4,168.85	1/2	3,862.91	1/2	3,556.97	1/2	3,227.29	1/2	2,867.38	1/2	2,507.16
3/4		3/4		3/4		3/4	4,467.77	3/4	4,162.48	3/4	3,856.54	3/4	3,550.59	3/4	3,219.79	3/4	2,859.87	3/4	2,499.67
5		5		5		5	4,461.43	5	4,156.10	5	3,850.16	5	3,544.22	5	3,212.29	5	2,852.37	5	2,492.17
1/4		1/4		1/4		1/4	4,455.09	1/4	4,149.73	1/4	3,843.79	1/4	3,537.85	1/4	3,204.80	1/4	2,844.86	1/4	2,484.67
1/2		1/2		1/2		1/2	4,448.76	1/2	4,143.36	1/2	3,837.41	1/2	3,531.47	1/2	3,197.30	1/2	2,837.36	1/2	2,477.18
3/4		3/4		3/4		3/4	4,442.42	3/4	4,136.98	3/4	3,831.04	3/4	3,525.10	3/4	3,189.80	3/4	2,829.85	3/4	2,469.68
6		6		6		6	4,436.08	6	4,130.61	6	3,824.67	6	3,518.72	6	3,182.30	6	2,822.34	6	2,462.19
1/4		1/4		1/4		1/4	4,429.74	1/4	4,124.24	1/4	3,818.29	1/4	3,512.35	1/4	3,174.81	1/4	2,814.84	1/4	2,454.69
1/2		1/2		1/2	4,732.56	1/2	4,423.41	1/2	4,117.86	1/2	3,811.92	1/2	3,505.98	1/2	3,167.31	1/2	2,807.33	1/2	2,447.19
3/4		3/4		3/4	4,726.87	3/4	4,417.07	3/4	4,111.49	3/4	3,805.55	3/4	3,499.60	3/4	3,159.81	3/4	2,799.83	3/4	2,439.70
7		7		7	4,721.19	7	4,410.73	7	4,105.11	7	3,799.17	7	3,493.23	7	3,152.31	7	2,792.32	7	2,432.20
1/4		1/4		1/4	4,715.50	1/4	4,404.39	1/4	4,098.74	1/4	3,792.80	1/4	3,486.86	1/4	3,144.81	1/4	2,784.82	1/4	2,424.70
1/2		1/2		1/2	4,708.49	1/2	4,398.06	1/2	4,092.37	1/2	3,786.42	1/2	3,480.48	1/2	3,137.32	1/2	2,777.31	1/2	2,417.21
3/4		3/4		3/4	4,701.49	3/4	4,391.72	3/4	4,085.99	3/4	3,780.05	3/4	3,474.11	3/4	3,129.82	3/4	2,769.81	3/4	2,409.71
8		8		8	4,694.48	8	4,385.38	8	4,079.62	8	3,773.68	8	3,467.73	8	3,122.32	8	2,762.30	8	2,402.22
1/4		1/4		1/4	4,687.47	1/4	4,379.04	1/4	4,073.25	1/4	3,767.30	1/4	3,461.36	1/4	3,114.82	1/4	2,754.80	1/4	2,394.72
1/2		1/2		1/2	4,680.07	1/2	4,372.71	1/2	4,066.87	1/2	3,760.93	1/2	3,454.99	1/2	3,107.32	1/2	2,747.29	1/2	2,387.22
3/4		3/4		3/4	4,672.68	3/4	4,366.37	3/4	4,060.50	3/4	3,754.56	3/4	3,448.61	3/4	3,099.83	3/4	2,739.79	3/4	2,379.73
9		9		9	4,665.29	9	4,360.03	9	4,054.12	9	3,748.18	9	3,442.24	9	3,092.33	9	2,732.28	9	2,372.23
1/4		1/4		1/4	4,657.89	1/4	4,353.69	1/4	4,047.75	1/4	3,741.81	1/4	3,435.87	1/4	3,084.83	1/4	2,724.77	1/4	2,364.73
1/2		1/2		1/2	4,651.56	1/2	4,347.32	1/2	4,041.38	1/2	3,735.43	1/2	3,429.49	1/2	3,077.33	1/2	2,717.27	1/2	2,357.24
3/4		3/4		3/4	4,645.22	3/4	4,340.95	3/4	4,035.00	3/4	3,729.06	3/4	3,423.12	3/4	3,069.83	3/4	2,709.76	3/4	2,349.74
10		10		10	4,638.88	10	4,334.57	10	4,028.63	10	3,722.69	10	3,416.74	10	3,062.34	10	2,702.26	10	2,342.25
1/4		1/4		1/4	4,632.54	1/4	4,328.20	1/4	4,022.26	1/4	3,716.31	1/4	3,410.37	1/4	3,054.84	1/4	2,694.75	1/4	2,334.75
1/2		1/2		1/2	4,626.21	1/2	4,321.82	1/2	4,015.88	1/2	3,709.94	1/2	3,404.00	1/2	3,047.34	1/2	2,687.25	1/2	2,327.25
3/4		3/4		3/4	4,619.87	3/4	4,315.45	3/4	4,009.51	3/4	3,703.57	3/4	3,397.62	3/4	3,039.84	3/4	2,679.74	3/4	2,319.76
11		11		11	4,613.53	11	4,309.08	11	4,003.13	11	3,697.19	11	3,391.25	11	3,032.34	11	2,672.24	11	2,312.26
1/4		1/4		1/4	4,607.19	1/4	4,302.70	1/4	3,996.76	1/4	3,690.82	1/4	3,384.88	1/4	3,024.84	1/4	2,664.73	1/4	2,304.76
1/2		1/2		1/2	4,600.86	1/2	4,296.33	1/2	3,990.39	1/2	3,684.44	1/2	3,377.37	1/2	3,017.35	1/2	2,657.23	1/2	2,297.26
3/4		3/4		3/4	4,594.52	3/4	4,289.95	3/4	3,984.01	3/4	3,678.07	3/4	3,369.87	3/4	3,009.85	3/4	2,649.72	3/4	2,289.75

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 384"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,282.24	0	1,923.53	0	1,565.35	0	1,205.17	0	845.00	0	495.62	0	135.55	0		0		0	
1/4	2,274.74	1/4	1,916.10	1/4	1,557.84	1/4	1,197.67	1/4	837.50	1/4	488.34	1/4	128.04	1/4	1/4	1/4		1/4	
1/2	2,267.23	1/2	1,908.67	1/2	1,550.34	1/2	1,190.17	1/2	830.22	1/2	480.83	1/2	120.53	1/2	1/2	1/2		1/2	
3/4	2,259.72	3/4	1,901.24	3/4	1,542.84	3/4	1,182.66	3/4	822.93	3/4	473.33	3/4	113.03	3/4	3/4	3/4		3/4	
1	2,252.22	1	1,893.81	1	1,535.33	1	1,175.16	1	815.65	1	465.82	1	105.52	1	1	1		1	
1/4	2,244.71	1/4	1,886.38	1/4	1,527.83	1/4	1,167.66	1/4	808.37	1/4	458.31	1/4	98.02	1/4	1/4	1/4		1/4	
1/2	2,237.20	1/2	1,878.95	1/2	1,520.32	1/2	1,160.15	1/2	801.09	1/2	450.81	1/2	90.51	1/2	1/2	1/2		1/2	
3/4	2,229.69	3/4	1,871.52	3/4	1,512.82	3/4	1,152.65	3/4	793.81	3/4	443.30	3/4	83.00	3/4	3/4	3/4		3/4	
2	2,222.19	2	1,864.09	2	1,505.32	2	1,145.14	2	786.52	2	435.79	2	75.50	2	2	2		2	
1/4	2,214.68	1/4	1,856.66	1/4	1,497.81	1/4	1,137.64	1/4	779.24	1/4	428.29	1/4	67.99	1/4	1/4	1/4		1/4	
1/2	2,207.17	1/2	1,849.23	1/2	1,490.31	1/2	1,130.14	1/2	771.96	1/2	420.78	1/2	60.75	1/2	1/2	1/2		1/2	
3/4	2,199.67	3/4	1,841.80	3/4	1,482.81	3/4	1,122.63	3/4	764.68	3/4	413.28	3/4	53.51	3/4	3/4	3/4		3/4	
3	2,192.16	3	1,834.37	3	1,475.30	3	1,115.13	3	757.40	3	405.77	3	46.28	3	3	3		3	
1/4	2,184.65	1/4	1,826.94	1/4	1,467.80	1/4	1,107.63	1/4	750.11	1/4	398.26	1/4	39.04	1/4	1/4	1/4		1/4	
1/2	2,177.15	1/2	1,819.51	1/2	1,460.30	1/2	1,100.12	1/2	742.84	1/2	390.76	1/2	33.67	1/2	1/2	1/2		1/2	
3/4	2,169.64	3/4	1,812.08	3/4	1,452.79	3/4	1,092.62	3/4	735.57	3/4	383.25	3/4	28.30	3/4	3/4	3/4		3/4	
4	2,162.13	4	1,804.65	4	1,445.29	4	1,085.12	4	728.30	4	375.74	4	22.93	4	4	4		4	
1/4	2,154.63	1/4	1,797.22	1/4	1,437.79	1/4	1,077.61	1/4	721.03	1/4	368.24	1/4	17.56	1/4	1/4	1/4		1/4	
1/2	2,147.12	1/2	1,789.79	1/2	1,430.28	1/2	1,070.11	1/2	713.76	1/2	360.73	1/2		1/2	1/2	1/2		1/2	
3/4	2,139.61	3/4	1,782.36	3/4	1,422.78	3/4	1,062.61	3/4	706.49	3/4	353.23	3/4		3/4	3/4	3/4		3/4	
5	2,132.10	5	1,774.93	5	1,415.27	5	1,055.10	5	699.21	5	345.72	5		5	5	5		5	
1/4	2,124.60	1/4	1,767.50	1/4	1,407.77	1/4	1,047.60	1/4	691.94	1/4	338.21	1/4		1/4	1/4	1/4		1/4	
1/2	2,117.09	1/2	1,760.07	1/2	1,400.27	1/2	1,040.09	1/2	684.67	1/2	330.71	1/2		1/2	1/2	1/2		1/2	
3/4	2,109.58	3/4	1,752.64	3/4	1,392.76	3/4	1,032.59	3/4	677.40	3/4	323.20	3/4		3/4	3/4	3/4		3/4	
6	2,102.08	6	1,745.21	6	1,385.26	6	1,025.09	6	670.13	6	315.69	6		6	6	6		6	
1/4	2,094.57	1/4	1,737.78	1/4	1,377.76	1/4	1,017.58	1/4	662.86	1/4	308.19	1/4		1/4	1/4	1/4		1/4	
1/2	2,087.10	1/2	1,730.31	1/2	1,370.25	1/2	1,010.08	1/2	655.59	1/2	300.68	1/2		1/2	1/2	1/2		1/2	
3/4	2,079.63	3/4	1,722.85	3/4	1,362.75	3/4	1,002.58	3/4	648.32	3/4	293.18	3/4		3/4	3/4	3/4		3/4	
7	2,072.16	7	1,715.38	7	1,355.25	7	995.07	7	641.06	7	285.67	7		7	7	7		7	
1/4	2,064.69	1/4	1,707.91	1/4	1,347.74	1/4	987.57	1/4	633.79	1/4	278.16	1/4		1/4	1/4	1/4		1/4	
1/2	2,057.26	1/2	1,700.41	1/2	1,340.24	1/2	980.07	1/2	626.52	1/2	270.66	1/2		1/2	1/2	1/2		1/2	
3/4	2,049.83	3/4	1,692.91	3/4	1,332.73	3/4	972.56	3/4	619.26	3/4	263.15	3/4		3/4	3/4	3/4		3/4	
8	2,042.41	8	1,685.40	8	1,325.23	8	965.06	8	611.99	8	255.65	8		8	8	8		8	
1/4	2,034.98	1/4	1,677.90	1/4	1,317.73	1/4	957.55	1/4	604.72	1/4	248.14	1/4		1/4	1/4	1/4		1/4	
1/2	2,027.55	1/2	1,670.40	1/2	1,310.22	1/2	950.05	1/2	597.45	1/2	240.63	1/2		1/2	1/2	1/2		1/2	
3/4	2,020.12	3/4	1,662.89	3/4	1,302.72	3/4	942.55	3/4	590.18	3/4	233.13	3/4		3/4	3/4	3/4		3/4	
9	2,012.69	9	1,655.39	9	1,295.22	9	935.04	9	582.91	9	225.62	9		9	9	9		9	
1/4	2,005.26	1/4	1,647.89	1/4	1,287.71	1/4	927.54	1/4	575.64	1/4	218.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,997.83	1/2	1,640.38	1/2	1,280.21	1/2	920.04	1/2	568.36	1/2	210.61	1/2		1/2	1/2	1/2		1/2	
3/4	1,990.40	3/4	1,632.88	3/4	1,272.71	3/4	912.53	3/4	561.09	3/4	203.10	3/4		3/4	3/4	3/4		3/4	
10	1,982.97	10	1,625.38	10	1,265.20	10	905.03	10	553.82	10	195.60	10		10	10	10		10	
1/4	1,975.54	1/4	1,617.87	1/4	1,257.70	1/4	897.53	1/4	546.55	1/4	188.09	1/4		1/4	1/4	1/4		1/4	
1/2	1,968.11	1/2	1,610.37	1/2	1,250.20	1/2	890.02	1/2	539.28	1/2	180.58	1/2		1/2	1/2	1/2		1/2	
3/4	1,960.68	3/4	1,602.86	3/4	1,242.69	3/4	882.52	3/4	532.01	3/4	173.08	3/4		3/4	3/4	3/4		3/4	
11	1,953.25	11	1,595.36	11	1,235.19	11	875.02	11	524.74	11	165.57	11		11	11	11		11	
1/4	1,945.82	1/4	1,587.86	1/4	1,227.68	1/4	867.51	1/4	517.46	1/4	158.06	1/4		1/4	1/4	1/4		1/4	
1/2	1,938.39	1/2	1,580.35	1/2	1,220.18	1/2	860.01	1/2	510.18	1/2	150.56	1/2		1/2	1/2	1/2		1/2	
3/4	1,930.96	3/4	1,572.85	3/4	1,212.68	3/4	852.50	3/4	502.90	3/4	143.05	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 04/22/2013 CL - SW  
CALCULATED: 04/22/2013 CL  
PRINTED: 04/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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